A.P.P.L.E.

Apple PugetSound Program Library Exchange

New Products

COMPUTER PLAYGROUND

II+ IIc IIe

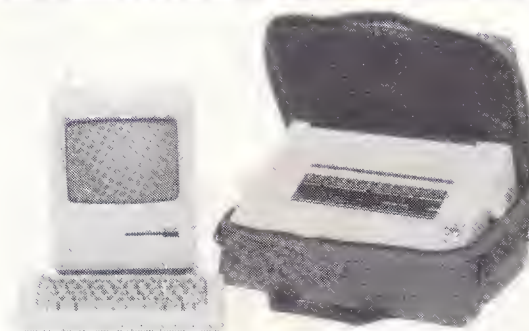| Product Code	PPLGRO
A.P.P.L.E. Price	$8.50
Sug. Retail	$9.95
Ship.Wt.	1 lb.

This illustrated workbook is for the child who wants to make the computer "do" something. It contains over 40 activities appealing to children and geared to their level of understanding. This is not a book on "What you can do with your Apple." Rather, it is a book on how to use BASIC with an Apple. Exercises include puzzles, math quizzes and word games. The illustrations throughout the book are suitable for coloring. For children grades 3–7.
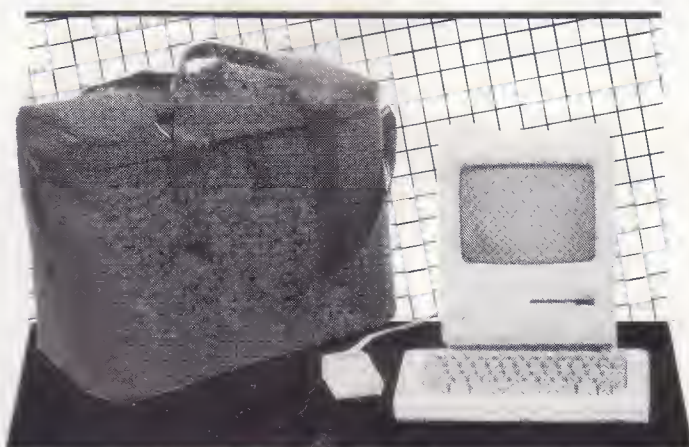
PRINTPAK

Product Code	HPRPAK
A.P.P.L.E. Price	$34.00
Sug. Retail	$34.95
Ship.Wt.	3 lbs.

A soft case for the Imagewriter® printer made of high-density foam and Cordura®. Can be carried by shoulder sling, like a suitcase or attached to the MacPak while carried as a backpack. Burgundy color.

MACPAK

Mac

Product Code	HMACPK
A.P.P.L.E. Price	$64.95
Sug. Retail	$79.00
Ship.Wt.	6 lbs.

A carrying case for your Macintosh made of masonite, thick high-density foam, and heavy Cordura®. Contains pockets for accessories, papers and manuals, and room for an extra disk drive and modem. Can be carried by shoulder sling, like a suitcase or by hideaway backpack straps. Burgundy color.

MULTIMODEM IIe TELECOMPUTING SYSTEM

II+ IIe

Product Code	HMOD2E
A.P.P.L.E. Price	$275.00
Sug. Retail	$329.00
Ship.Wt.	3 lbs.

A 300 baud intelligent plug–in modem card *and* MultiCom II communications software. Serial interface card not required. Includes automatic dialing, automatic answering, busy number redialing, and phone number storage. Dial from your Apple keyboard. A speaker allows you to monitor the progress of your call. Plug in your telephone and use the same line for talking. Compatible with Apple II,II+,IIe.

TABLE OF CONTENTS

New Membership Bonus

If you see many items that you like in this catalog and are not a member, we have a new membership bonus for you. When you purchase any combination of products totalling $300 or more, you receive your membership at no extra charge...a savings of $51! New members will also receive 10 free blank diskettes! And remember, all your purchases qualify for co–op rebates.

The required additional postage for 1st class and foreign membership is not included in this offer. See page 37.

Institutional Memberships Available

Your organization can get up to a 50% discount on A.P.P.L.E. brand software and publications! and a group discount on some hardware products. We accept purchase orders on institutional orders. Call (206) 872–2245 for full details.

Co–Op Status

The IRS is slow in dealing with us. But we are counting member purchases after May 1, 1984 as qualified purchases for rebate credits. Members can get additional savings on all their purchases after May 1, 1984. So include your membership number on all orders to insure that you are credited for your participation.

Specials

EXPIRED MEMBERSHIP SPECIAL

Don't let your expired membership stop you from ordering. This offer lets you take advantage of our membership prices as well as renewing your lapsed subscription. Order $300 or more of any combination of products and receive a free renewal. See how *Call –A.P.P.L.E.* has changed, and enjoy up–to–date information to help you get the most from your Apple.

The required additional postage for 1st class and foreign membership is not included in this offer. See page 37.

NEW MEMBER SPECIAL

Current A.P.P.L.E. members who sign up a new member will receive their choice of one Value–Soft program *plus* one poster (February '84 cover of *Call –A.P.P.L.E.*). New members will receive a bound set of the 1983 issues of *Call –A.P.P.L.E.*.

The required additional postage for 1st class and foregin membership is not included in this offer. See page 37.

AP GRAPHICS: "The Filler" *plus* GRAPHICS BUILDER

Product Code	SPGRPH
A.P.P.L.E. Price	$25.00
Sug. Retail	N/A
Ship.Wt.	6 oz.

A new package combining two popular graphics utilities for a special price. *See Software and Value -Soft Sections for descriptions.*

WORDSTAR or INFOSTAR plus STARCARD

Product Code	*
A.P.P.L.E. Price	$325.00
Sug. Retail	$495.00
Ship.Wt.	8 lbs.

A new package offering you a choice of either WordStar or InfoStar *plus* the StarCard. The StarCard has 64K RAM, uses CP/M Operating System 2.2, has a Shift Modification Device and has 40–255 column horizontal scroll capability.

* WordStar   SPWORD
  InfoStar   SPINFO

THE WORDSTAR PROFESSIONAL

Product Code	SPWSPR
A.P.P.L.E. Price	$450.00
Sug. Retail	$695.00
Ship.Wt.	9 lbs.

Combines WordStar with its options: MailMerge, SpellStar, and StarIndex in a two binder set. It provides all the tools needed for professional word processing at an attractive price. Includes StarCard.

PROFESSIONAL OPTIONS PACK

Product Code	SPWSOP
A.P.P.L.E. Price	$195.00
Sug. Retail	$345.00
Ship.Wt.	3 lbs.

Designed for the WordStar user, the Options Pack includes MailMerge, SpellStar and StarIndex at a cost that is substantially less than the cost if ordered separately.

New Products

(II+ IIe) MOCKINGBOARD

Product Code	HMOBII
A.P.P.L.E. Price	$165.00
Sug. Retail	$195.00
Ship.Wt.	2 lbs.

A peripheral device that generates sound effects, music and speech from your Apple computer, Mockingboard offers unlimited vocabulary and talks as you type. You can make Mockingboard talk, sing, spell, recite poetry, add synthesized speech, music, and sound effects to your own programs, and more. Supported by dozens of software programs.

Mockingboard has two sound chips, thus two channels of sound with a total of six sound effects/music voices. There are volume controls right on the board. Includes speaker cables compatible with most stereo speakers and Mockingboard B speech upgrade.

(IIc) MOCKINGBOARD for the IIc

Product Code	HMOB2C
A.P.P.L.E. Price	$165.00
Sug. Retail	$195.00
Ship.Wt.	3 lbs.

This is the only peripheral that provides speech, music and sound effects with software support for the IIc. It is completely self-contained and has its own onboard stereo speakers.

DATASTAR

Product Code	SDATST
A.P.P.L.E. Price	$200.00
Sug. Retail	$295.00
Ship.Wt.	5 lbs.

DataStar is a comprehensive database program. This program includes help screens, extra help messages, and on-screen prompts. In addition, DataStar protects against incorrect entries, provides accurate calculations of up to 14 digits, and will gather information from separate reference files. Requires CP/M card.

(Lisa) LISA QUICKDRAW DEMO DISKETTE by David Redhed

Product Code	SQDRAW
A.P.P.L.E. Price	$39.50
Sug. Retail	N/A
Ship.Wt.	2 oz.

This diskette has three Pascal Workshop programs demonstrating QuickDraw graphics. Annotated source code is included to illustrate how QuickDraw is accessed through Pascal. Several features similar to the Office System graphics have been implemented through Pascal procedures in a form adaptable to your own programs.

Program #1: Eleven separate aspects of QuickDraw illustrated in a program using mouse-selectable menus.

Program #2: A version of Apple Computer's QDSample with annotated source code.

Program #3: Illustrates the use of multiple grafPorts in QuickDraw. GrafPorts are the basis for all multiple window effects in the Lisa Office System.

The diskette contains a text file with additional information for running the demo programs. Also included are three Exec files to aid you with compilation and linking when you make changes to the source code.

THE APPLE ALMANAC

Product Code	PAPALM
A.P.P.L.E. Price	$17.50
Sug. Retail	$19.95
Ship.Wt.	2 lbs.

This reference volume brings together in one place ASCII charts, opcodes, PEEK and POKE charts plus vital DOS information, graphic charts and algorithms. This is not a general tutorial for beginners, but is better suited for the intermediate to advanced computer user. A list of useful sources for learning about the various aspects of the Apple is included in case you have gaps in your knowledge about your computer.

New Products

⏀
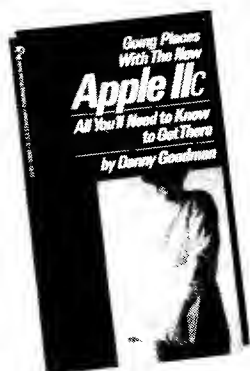## /// CHEERS!
A Quarterly Diskette
Magazine

Product Code	SCHEER
A.P.P.L.E. Price	$40.00
Sug. Retail	N/A
Ship.Wt.	4 oz.

A bold new concept in publishing, /// Cheers brings news, learning, entertainment and technical support to Apple /// owners through disk–based articles and programs. The magazine supports the Boats™ window–oriented environment, allowing the user to interactively view information on the screen. Alternately, the magazine can be sent to a printer for more traditional reading. Includes two diskettes. Requirements: an Apple /// or ///+ — screen viewing requires 256K of memory. $40.00 for one year subscription.

$12.50 for a single issue.

Single issue product codes:

SCHE1	**Summer 1984**	(shipping weight
SCHE2	**Fall 1984**	1 oz. each)
SCHE3	**Winter 1985**	
SCHE4	**Spring 1985**	

⏀
GOING PLACES
WITH THE
APPLE IIc

Product Code	PAPP2C
A.P.P.L.E. Price	$3.25
Sug. Retail	$3.95
Ship.Wt.	7 oz.

This book is recommended reading for the person contemplating the purchase of a personal computer, especially the Apple IIc. Not only is Apple's smallest computer described, but it is also contrasted with its predecessors in the Apple II family, in addition to computers offered by Apple's major competitors. This discussion is factual and reasonably balanced without being overly technical. The book is also a creditable introduction to computer literacy, covering basic terminology as well as the usefulness of the computer for a variety of jobs in the home. Some exemplary programs and applications are discussed in detail (word processing, spreadsheet, databases, telecommunications, entertainment), and the purpose of add–on equipment is discussed. There are even tips for choosing educational software. Overall, this book will be most valuable as a painless introduction rather than a comprehensive buyer's guide.

⏀ ⏀
REPORTSTAR

Product Code	SREPST
A.P.P.L.E. Price	$205.00
Sug. Retail	$350.00
Ship.Wt.	6 lbs.

ReportStar is a report generator program, with the ability to create a simple list of information or a complex, sophisticated report, depending on your need. Seven major features include quick report, report format editing, a print enhancement package, field totaling, transaction processing, form sorting, and the ability to write reports to disk. Requires CP/M card.

A.P.P.L.E.
T-SHIRT

Product Code	*
A.P.P.L.E. Price	$10.95
Sug. Retail	N/A
Ship.Wt.	5 oz.

Proclaim your pride in the world's largest Apple user group. Just in time for summer. Silkscreened in four–color, A.P.P.L.E. T-shirts make great gifts for friends. Sizes S, M, L, XL.
* Please specify size by choosing the appropriate Product Code.

S	HTSHS	L	HTSHL
M	HTSHM	XL	HTSHX

Call –A.P.P.L.E.
POSTER
February 1984 Cover

Product Code	HPOST2
A.P.P.L.E. Price	$9.95
Sug. Retail	N/A
Ship.Wt.	2 oz.

The "Apple tree" Call –A.P.P.L.E. cover from February '84 has indeed become a classic. Produced in lavish four–color, this poster measures 20 x 25, and is a handsome addition to home, office, or computer area. Suitable for framing.

⏀ ⏀
MAILMERGE

Product Code	SMA1LM
A.P.P.L.E. Price	$175.00
Sug. Retail	$195.00
Ship.Wt.	3 lbs.

MailMerge is a versatile file merging tool that works with WordStar. It is commonly used to generate personalized form letters, invoices, and mailing labels. "If. . . then. . ." statements can be used to select data records. MailMerge also eliminates repetitive typing of often used paragraphs with its "file insert" capability, and it allows for chain printing of documents, such as chapters in a book. Requires CP/M card.

⏀ ⏀
SUPERSORT

Product Code	SSUPSO
A.P.P.L.E. Price	$147.00
Sug. Retail	$250.00
Ship.Wt.	3 lbs.

SuperSort is a flexible and extremely fast utility for sorting, merging and selecting information from data files. It allows a wide variety of user–specified criteria during the sort/merge process. SuperSort works with ASCII, BCD, and binary data and can be used to change variable length record files into fixed length record files. Requires CP/M card.

New Products

SPELLSTAR

Product Code	SSPEST
A.P.P.L.E. Price	$147.00
Sug. Retail	$195.00
Ship.Wt.	2 lbs.

SpellStar is a spelling checker that works with Word-Star to find spelling and typing errors. SpellStar scans documents, comparing the words in the document with the words in its 20,000 word dictionary. Errors are highlighted in context and the user has the choice of fixing the word, adding it to the supplemental dictionary, by-passing the word, or ignoring it throughout the document. Requires CP/M card.

STARINDEX

Product Code	SSTIND
A.P.P.L.E. Price	$115.00
Sug. Retail	$195.00
Ship.Wt.	2 lbs.

StarIndex allows the user to create text reference aids such as an alphabetized index with subentries, a table of contents with up to four levels of emphasis, a list of figures and tables, and an outline – all in the user's personal style. Requires CP/M card.

MEMOREX 3.5" MICRO-FLOPPY DISK

Product Code	HDMEMO
A.P.P.L.E. Price	$44.00
Sug. Retail	$59.00
Ship.Wt.	10 oz.

Single–sided 3.5" micro–floppy disk. Box of 10.

BASF 3.5" MICRO FLEXYDISK

Product Code	HBASF
A.P.P.L.E. Price	$22.50
Sug. Retail	$29.75
Ship.Wt.	7 oz.

Single–sided 3.5" micro–floppy disk with a **lifetime guarantee**. Box of 5.

THE APPLE CONNECTION

Product Code	PAPCON
A.P.P.L.E. Price	$12.95
Sug. Retail	$14.95
Ship.Wt.	2 lbs.

This book teaches you to program and connect your Apple to real appliances and devices. It will help you sharpen your BASIC programming skills as you learn elementary interfacing techniques. In particular, you will learn how to use PEEK and POKE instructions in BASIC, Apple I/O slots, transducers and solid–state relays. Also, how to perform digital–to–analog and analog–to–digital conversions, and how to build real applications such as a home security system and a complete temperature monitoring system.

SOFTWARE AUTHOR'S GUIDE

Product Code	PAUTGU
A.P.P.L.E. Price	$17.50
Sug. Retail	$19.95
Ship.Wt.	2 lbs.

This comprehensive guide contains hints from over 300 software companies on how to publish your own software. Compiled from a questionnaire sent to publishers world–wide, this book contains information on where to send material and how to submit it. Useful tips are included, such as "familiarize yourself with the products and style of writing of a certain company before submitting a product for publication. . .look at all competition after conceiving an idea but prior to coding. . .be patient. . .".

WORDSTAR or INFOSTAR *plus* STARCARD

Product Code	*
A.P.P.L.E. Price	$325.00
Sug. Retail	$495.00
Ship.Wt.	6 lbs.

A new package offering you a choice of either Word-Star or InfoStar *plus* the StarCard. The StarCard has 64K RAM, uses CP/M Operating System 2.2, has a Shift Modification Device and has 40–255 column horizontal scroll capability.

* WordStar   SPWORD
  InfoStar   SPINFO

THE WORDSTAR PROFESSIONAL

Product Code	SPWSPR
A.P.P.L.E. Price	$450.00
Sug. Retail	$695.00
Ship.Wt.	9 lbs.

Combines WordStar with its options: MailMerge, SpellStar, and StarIndex in a two binder set. It provides all the tools needed for professional word processing at an attractive price. Includes StarCard.

PROFESSIONAL OPTIONS PACK

Product Code	SPWSOP
A.P.P.L.E. Price	$195.00
Sug. Retail	$345.00
Ship.Wt.	3 lbs.

Designed for the WordStar user, the Options Pack includes MailMerge, SpellStar and StarIndex at a cost that is substantially less than the cost if ordered separately.

KOALAPAD TOUCH TABLET (for the *IIc*)

Product Code	HKOA2C
A.P.P.L.E. Price	$95.00
Sug. Retail	$124.95
Ship.Wt.	2 lbs.

See description of the KoalaPad Touch Tablet in Hardware Section.

New Products

BIG MAC.C

Product Code	SMACC
A.P.P.L.E. Price	$40.00
Sug. Retail	N/A
Ship.Wt.	1 lb.

Powerful, co–resident editor/assembler for which Ted II+ and BIG MAC.LC files are upward–compatible. Easy–to–use program features MACRO capability, fast (2000–3000 lines/minute) conditional assembly, full feature editor, support of all 6502 and the new 65C02 op-codes, Sweet 16 pseudo–opcodes, and all logical and math operations. In addition, you may generate up to three different symbol tables (alpha by label, numerical by address, cross–referenced by line). For development of very large programs, the source code may be assembled directly from disk and the object code itself assembled directly to disk. An extensive well–written manual is included (193 pages). The stand–alone disassembler provided handles 65C02 opcodes and generates compatible source code. Bonuses include a variety of useful assembly language routines, and a clever system to print a labeled and commented disassembly of the Applesoft language. **IIc compatible.**

Call-A.P.P.L.E.
IN DEPTH VOL 4, "ALL ABOUT APPLEWRITER IIe"

Product Code	PID4
A.P.P.L.E. Price	$12.50
Sug. Retail	$15.00
Ship.Wt.	1 lb.

Make Applewriter work for you. A technical treatise on Applewriter IIe. 19 chapters include full descriptions of each facet, annotating each of four work areas, memory management, zero page, entry points, WPL, modifications, etc. Full descriptions of each subroutine, indexed by address. Not for Beginners.

BOUND SET OF Call -A.P.P.L.E. ISSUES 1983

Product Code	PPK6
A.P.P.L.E. Price	$18.50
Sug. Retail	$3.00
Ship.Wt.	6 lbs.

Complete set of the individual issues of our magazine for the indicated calendar year. Each is fully indexed for easy reference and binder punched for easy handling.

INFOSTAR

Product Code	SINFST
A.P.P.L.E. Price	$295.00
Sug. Retail	$395.00
Ship.Wt.	8 lbs.

Info Star is an extremely powerful, yet easy–to–use, data–base management system. Four levels of help menus guide the user through each step of data entry form design, sorting and report generation. Transaction processing and automatic updating enable the user to easily update records across file boundaries. InfoStar provides up to nine control breaks, arithmetic calculations within the report, and allows the user to incorporate data from multiple files. Print enhancement features include bold facing and underlining of selected data fields. InfoStar for the Apple requires a CP/M card and 48K of memory.

MICRO ON THE APPLE
Book Series

MICRO Magazine has been offering software support to Apple users for more than five years. This series presents some of the most outstanding programs and articles that have appeared in MICRO, as well as new material. **Diskette of text included with each book!**

Vol. 1

Product Code	PMA1
A.P.P.L.E.Price	$15.00
Sug. Retail	$24.95
Ship.Wt.	1 lb.

Especially for the beginning–to–intermediate Apple user. Among the capabilities offered are accurate rounding and formatting of numbers, lower–case letters, and punctuation into Applesoft strings. Includes the popular game "Spelunker".

Vol.2

Product Code	PMA2
A.P.P.L.E.Price	$15.00
Sug. Retail	$24.95
Ship.Wt.	1 lb.

For the intermediate–to–advanced user, Vol. 2 provides reference material, advanced machine–language routines, programming techniques, graphics applications, and entertainment.

Vol.3

Product Code	PMA3
A.P.P.L.E.Price	$15.00
Sug. Retail	$24.95
Ship.Wt.	1 lb.

Volume 3 tops the series with indispensable aids for programming, impressive graphics programs, I/O enhancements, and more. Some of these programs are being published for the first time.

MICRO ON THE APPLE
(3 Vol. Set)

Product Code	PMAS
A.P.P.L.E.Price	$40.00
Sug. Retail	$59.95
Ship.Wt.	3 lbs.

MAGICPHONE

Product Code	HMAGPH
A.P.P.L.E.Price	$180.00
Sug. Retail	$199.95
Ship.Wt.	3 lbs.

MAGICphone™ provides the Macintosh with a whole new spectrum of voice/telephone communications. Software is provided to manage and dial hundreds of phone numbers and will record and print the details (time, number, and charge) of each call. The phone log can be printed on a daily, weekly, or monthly basis. The mouse is used to select and dial any phone number, and MAGICphone uses TONE dialing to any of the lower–cost telephone carriers like SPRINT and MCI. MAGICphone allows control of two separate phone lines by providing a "hold" feature and can temporarily stop incoming calls (the caller will hear a busy signal).

Simply plug the MAGICphone into your Macintosh speaker jack and into your phone line. Can also be used as a stand alone telephone without Mac control.

New Products

MICRO DRIVE
II+ IIe

Product Code	HTDSDR
A.P.P.L.E. Price	$210.00
Sug. Retail	$280.00
Ship.Wt.	5 lbs.

This is a half–high 5¼" single–sided drive, compatible with most Apple diskettes. (Some highly copy–protected disks will not boot on this drive.) It features quiet operation and an insertion squeeze lever with automatic disk eject. Patches are given for DOS 3.3 40–track operation. Full one year warranty from the manufacturer. **Introductory special — the Verbatim Disk Drive Analyzer is included.** Can be used with II,II+,*IIe.*

MICRO DRIVE
for the *IIc*

Product Code	HTDS2C
A.P.P.L.E. Price	$225.00
Sug. Retail	$320.00
Ship.Wt.	5 lbs.

TRANSYLVANIA
Mac

Product Code	STRA
A.P.P.L.E. Price	$25.50
Sug. Retail	$34.95
Ship.Wt.	4 oz.

A hi–res graphic adventure for the Mac. Explore the world of Transylvania and rescue a damsel in distress...but first you must find her. To do so you must travel around, use objects that you find, and solve many puzzles.

THE APPLE II
BASIC HANDBOOK
II+ IIc IIe

Product Code	PAPHDB
A.P.P.L.E. Price	$12.95
Sug. Retail	$14.95
Ship.Wt.	1 lb.

This reference book lists and explains the entire Applesoft and Integer BASIC vocabularies. All of the DOS commands are included. Sample programs show what each command does.

POWER SUPPLY
II+ IIe

Product Code	HPOWSU
A.P.P.L.E. Price	$85.00
Sug. Retail	$129.00
Ship.Wt.	3 lbs.

Does your Apple click and pop or come on slowly when you turn on the power switch? If so, you may need the A. P. P. L. E. replacement power supply. This power supply is compatible with the Apple II,II+,*IIe*. It has a high capacity with 5 amps at 5V and 2 amps at 12V. A switch between I 10/220 is built in and included is a 6ft power cord and power on light. 90–day warranty. This is a NEW (not rebuilt) unit.

CALCSTAR
II+ IIe

Product Code	SCALST
A.P.P.L.E. Price	$115.00
Sug. Retail	$195.00
Ship.Wt.	2 lbs.

CalcStar is an advanced electronic spreadsheet program with features including variable column widths, decimal precision, logarithms, exponents and linear regression. Compatible with WordStar, the user has available boldface, underlining and other features. Requires CP/M card.

UNDERSTANDING
DBASE II
II+ IIe

Product Code	PDBII
A.P.P.L.E. Price	$19.95
Sug. Retail	$22.95
Ship.Wt.	2 lbs.

This book will help you master the basics of data base management using dBase II. Programming techniques are included for such applications as mailing label systems, graphics, bookkeeping, and printing and formating reports. Also, you will learn to interface dBase II with other software systems to expand its capabilities.

INTRODUCING
THE APPLE
MACINTOSH
Mac

Product Code	PMACIN
A.P.P.L.E. Price	$10.50
Sug. Retail	$12.95
Ship.Wt.	1 lb.

This book explains the concepts of the desktop and how to think about the Mac desktop concept to improve your productivity. Whether you have a Mac on hand or are thinking about buying one, this handy guide will serve you well.

ZARDAX
III II+ IIc IIe

Product Code	*
A.P.P.L.E. Price	$160.00
Sug. Retail	$210.00
Ship.Wt.	2 lbs.

Professional–quality word processing easy enough for the beginner to use. Menus for disk and document handling. Editing commands are easy to remember. A Glossary feature allows you to define phrases used repeatedly which you may recall with only two keystrokes. Mail merge is included for form letters or mailing lists. 40 or 80 column display with most popular 80 column cards supported. A complete set of print formatting commands tailored for each printer (over 40 of them, or write your own); you rarely need to remember "control codes" or face the back end of a printer manual. ZARDAX uses standard text files. A printer spooling or pseudo–disk capability is provided (requires 128K RAM card or auxiliary memory). "Chaining" for long documents. Headers, footers, sub–scripting and super–scripting.

This program is copy–protected. Two diskettes are supplied. New features and updates are released periodically on a copyable "utilities" disk. ZARDAX for the II+, *IIc* or *IIe* uses DOS 3.3. Extra keyboard connector REQUIRED for II+ (unless you have an Enhancer II). *See Hardware Section for Zardax Keyboard Connector.*

ZARDAX for the *III* uses SOS, and adds extra features: up to 197K files, reads, writes and converts ASCII or Pascal text files.

* Please specify II,II+,*IIe,IIc* or *III* by choosing the appropriate Product Code.

II,II+,*IIe,IIc*	SZARII
III	SZARDA

Closeouts

THE POWER OF VISICALC
Vol. 1 and 2

Product Code	SPVIS
A.P.P.L.E.Price	$14.00
Sug. Retail	$19.90
Ship.Wt.	2 lbs.

Clearly–written and illustrative exercise manuals designed to increase your comprehension and use of the VisiCalc program and its powerful functions. Picking up where the manual left off, these books give actual, working application examples that are easily adapted to your own models. **Both volumes combined for a special close–out price.**

VOLUME I

Covers block movement, values, reference tables, changing sequences, nesting look–up tables, file storage, math conversion, etc.

VOLUME II

Covers Accounts Payable, Payroll Reports, Monthly Sales & daily Inventory Analysis and Financial Reporting.

APPLE ORCHARD

Product Code	PAO1
A.P.P.L.E.Price	$1.00
Sug. Retail	$5.00
Ship.Wt.	1 lb.

First issue of the International Apple Core with 100 pages of articles, programs, and hints. **Close-out item.**

KIDS AND THE APPLE

Product Code	PKID
A.P.P.L.E.Price	$14.00
Sug. Retail	$19.95
Ship.Wt.	2 lbs.

Written for kids of all ages, this illustrated publication presents the World of Apple II programming in a tutorial/ textbook format that makes learning fun! Contains over 30 different lessons with full explanations, examples, exercises, and quick review quizzes. "Kids and the Apple" will teach your kids (adults too!) how to program their own board, action, and word games, how to store and recall information, how to write drill programs to help them in math, spelling, and history, and how to illustrate them with Apple Graphics. Super! **Close-out item.**

BEST OF CIDER PRESS
Vol. 1

Product Code	PCP1
A.P.P.L.E.Price	$1.00
Sug. Retail	$5.00
Ship.Wt.	7 oz.

Journal including programs and articles from newsletters of the San Francisco Apple Core. **Special close–out price.**

BIG MAC.LC

Product Code	SMLC
A.P.P.L.E.Price	$22.50
Sug. Retail	N/A
Ship.Wt.	7 oz.

Powerful, co–resident editor/assembler that is upwards compatible with Ted II + source files as well as files generated from other assemblers. Easy–to– use program features MACRO–capability, fast (2000–3000 lines/minute) conditional assembly, full feature editor, support of all 6502 opcodes, Sweet 16, and all logical and math operations. In addition, you may generate up to three different symbol tables (alpha by label, numeric by address, cross–referenced by line). An extensive well–written manual is included. MAC.LC stands for 'Language Card' or RAM card version and loads itself into your 16K card allowing you more room.

The program also supports linking of object code files, 80–column boards, conversion of text & binary files, and others. For member convenience, a copy of the 48K BIG MAC is included on the disk. (Note: MAC.LC requires a Language or RAM card to function properly.)

WORD WEAVER III

Product Code	SWW3
A.P.P.L.E.Price	$35.00
Sug. Retail	N/A
Ship.Wt.	3 oz.

Comprehensive, easy–to–use line–oriented word processor package for the Apple *III*. Features text– imbeddable printer control codes, text formatting, global search/edit/replace, easy and logical edit commands, and linking of up to 50 separate files. (Note: requires 128K Apple *III* computer and printer). **Close-out item.**

WOZPAK II

Product Code	PWII
A.P.P.L.E.Price	$10.00
Sug. Retail	$22.50
Ship.Wt.	1 lb.

Over 100 pages of documentation in easy–to–read format with many examples and explanations not previously available. Includes documentation of the TED II editor/assembler, Integer floating–point routines, Sweet 16, 6-color hi-res hardware modification, and other helpful hints. **Special close-out price.**

ValueSoft

An inexpensive quality line of software from A.P.P.L.E.. Only $12.50 each.

CATER KILLER
By Jeff Koftinoff

Product Code	SCATKI
A.P.P.L.E.Price	$12.50
Sug. Retail	N/A
Ship.Wt.	2 oz.

Cater Killer is a multi–level action arcade game that can be played with keyboard or joystick providing hours of enjoyment for young and old alike. The scenario is that you are alone in a world populated by Cater Killers which are very hazardous to your health. You must take food away from the baby Cater Killers and if you get all eight foodstuffs, you advance to the next level. There are three screens and several levels.

DISK ANALYZER 1.3
By Ronald A. Thisted, Ph.D.

Product Code	SDOSAN
A.P.P.L.E.Price	$12.50
Sug. Retail	N/A
Ship.Wt.	2 oz.

This is a utility for viewing and printing the raw contents of a disk. Features a specially formatted printout of the VTOC, catalog, and track/sector list. Once this information is viewed, you can proceed to read sectors of any particular file. This is especially useful in investigating bad word processor files. The program is especially well documented to provide a learning experience in programming and in using RWTS. The program is mostly in Applesoft and Big Mac source files are included for the binary portion of the program. This program can be used by a beginner and will be useful to most anyone. Requires any Apple with Applesoft and one disk drive. A printer is useful.

GRAFMAGIC
By Stuart Cowan

Product Code	SGRAFM
A.P.P.L.E.Price	$12.50
Sug. Retail	N/A
Ship.Wt.	2 oz.

Put pzazz into the graphics of your BASIC programs! Grafmagic gives you a comprehensive set of graphics enhancements (over 70 commands!) easily invoked by name using the Ampersand call. A hi–res character set and font editor are included which are DOS Toolkit compatible. In use, the character size can be varied independently in both the horizontal and vertical dimensions. Thickness of boldfacing is also variable. It even does sub and superscripting. Logo–like turtle commands include ones to tell you the turtle's current location and orientation. Windows may be defined within the hi–res screen and you may expand or shrink either the width or height of the contents, scroll or even rotate the image! This gives you an easy method to take small objects created elsewhere (with the Koala Pad for example), cut them out, and use them in your programs. Such shapes can be used for animation effects without destruction of the background, in equivalent fashion to XDRAW in Applesoft but without the problems of using standard Applesoft shape tables. Tone generation commands are also built in. Requires an Apple with 64K and one disk drive (19 pages of documentation on the disk).

GRAPHICS BUILDER
By Alton Loe

Product Code	SGRABU
A.P.P.L.E.Price	$12.50
Sug. Retail	N/A
Ship.Wt.	2 oz.

This is a graphics utility which allows you to draw a hi–res picture and save the picture as a standard binary file or as a more compact text file of x–y coordinates and commands. This program may be used to modify an existing picture, to put labels on a graph or a moustache on Hopalong Cassidy. Additional commands allow expansion or contraction of the picture (and corresponding coordinate table), pen color selection, goto XY, and reference grid. When used in conjunction with APGRAPHICS: The Filler, Graphics Builder makes possible sketch–and–fill techniques very popular for creating hi–res adventure games. Fill commands are recognized by the Graphics Builder's editor if APGRAPHICS: The Filler is in memory.

FARWORD
By John Shanks and Fred Lautzenhiser

Product Code	SFARWO
A.P.P.L.E.Price	$12.50
Sug. Retail	N/A
Ship.Wt.	2 oz.

A high quality line oriented word processor. Features 40 column editing with 80 column preview. Text is easily edited, inserted, moved or deleted using the same command structure as Big Mac. Any portion of the text can be saved to disk and disk files can be easily inserted. Lines can be alphabetized. Formatting capability is exceptional, any function of your printer can be utilized. A line editor is especially useful for writing outlines, lists of data, fact sheets or any situation where text manipulation is needed. Requires a 64K Apple with Applesoft and one disk drive. An 80 column card, additional disk drive, lower case chip and shift key modification are desirable.

MORTGAGES, DEPRECIATION, AND FINANCIAL CALCULATIONS
By Wayne Pratt

Product Code	SMORTG
A.P.P.L.E.Price	$12.50
Sug. Retail	N/A
Ship.Wt.	2 oz.

A first rate financial calculation program, MDFC provides a means to print out an amortization of loans involving as many as three mortgages. The financial portion finds internal rate of return, financial management rate of return, net present value, compound interest and discounting, discount a note and yield on a wrap–around note. The depreciation models allow either real estate or personal property to be depreciated. Methods include Pr–1981, straight line and accelerated. These programs will be of great value to homeowners and investors. Requires any Apple (Applesoft) and a disk drive. A printer is recommended.

ValueSoft

An inexpensive quality line of software from A.P.P.L.E.. Only $12.50 each.

SCRAMBLER
By Jerry Jongerius
Jagware

Product Code	SSCRAM
A.P.P.L.E. Price	$12.50
Sug. Retail	N/A
Ship.Wt.	2 oz.

A disk utility to scan a disk for errors and to copy protect your personal software. Each sector of a disk is checked, bad sectors are marked on the screen. Copy protection can be applied to your disk and for added protection you can add a password. Data disks can also be created. This program is of use in the classroom, at school, or might be used in the home to separate family software. Requires an Apple II+ or IIe with one disk drive. A second drive and a printer are optional.

MICROWRITER IIe
By William H. Starbuck

Product Code	SMICWT
A.P.P.L.E. Price	$12.50
Sug. Retail	N/A
Ship.Wt.	2 oz.

A semiprofessional screen oriented word processor. Features 40 or 80 column edit modes, an 80 column preview if you edit in 40 columns, full IIe keyboard support, text insert, delete, move and replace, insert segments from disk, and save segments to disk. Generates standard text files. Printer drivers are included for Epson, Tally, Prowriter and Apple DMP. Full instructions are included to generate additional printer drivers. This word processor is easy to use and will satisfy the requirements of 99% of the users. Requires an Apple IIe and one disk drive (IIc compatible). Supports additional drives and most likely any printer or 80 column card.

WICKERWARE #1
By Andrew Wicker

Product Code	SWICWA
A.P.P.L.E. Price	$12.50
Sug. Retail	N/A
Ship.Wt.	2 oz.

A collection of 11 fun filled and action packed games for various levels and abilities. The 11 assorted games are listed below and require an Apple and one disk drive.

Chaser	Trap	Catch	Eat Em Up
Block Em	Lunar Lander	Panic	Alien
Janitor	Depth Charge	Bouncer	

ZAPT
By Andy Tuxen
Apt Software

Product Code	SZAPT
A.P.P.L.E. Price	$12.50
Sug. Retail	N/A
Ship.Wt.	2 oz.

A disk utility for altering data on a DOS 3.2, 3.3 or PASCAL disk. With this utility you can change catalog entries, recover deleted files, delete DOS, make modifications to binary programs, and correct corrupted files. In short, you can read or write any byte on a disk. This program is for those who want to learn and for those who have always wanted a (another) ZAP program. As is our policy, this is another well documented and easy-to-use program. Requires any Apple and one disk drive.

THE SCHOOLHOUSE GRADER
By Jim Campbell

Product Code	SGRADE
A.P.P.L.E. Price	$12.50
Sug. Retail	N/A
Ship.Wt.	2 oz.

A teachers record book, a class roster and a record of grades, assignments and attendance, as well as statistics are provided. This uncomplicated program should be of great value to teachers who wish to try using a computer for record keeping. Requires any Apple with 48K and one disk drive. A second drive and a printer are recommended.

Updates & Upgrades

Note: All orders for updates and upgrades must be accompanied by payment and original A.P.P.L.E. diskette.

GPLE
IIe Update

Product Code	FUPD
A.P.P.L.E. Price	$5.00
Sug. Retail	N/A
Ship.Wt.	1 oz.

Driver added to support IIe 80 column display.

HIGHER TEXT PLUS
IIe Update

Product Code	FUPD
A.P.P.L.E. Price	$5.00
Sug. Retail	N/A
Ship.Wt.	1 oz.

Zero page instructions rewritten so that higher text is now fully IIe compatible.

APMAIL
PRO Upgrade

Product Code	SAPMUP
A.P.P.L.E. Price	$10.00
Sug. Retail	N/A
Ship.Wt.	2 oz.

Includes new documentation. See APMAIL.-PRO description.

APTEST
IIe Update

Product Code	FUPD
A.P.P.L.E. Price	$5.00
Sug. Retail	N/A
Ship.Wt.	1 oz.

Updated to include IIe-specific tests: auxiliary RAM, IIe ROMs, etc.

CARPENTER
II Upgrade

Product Code	SCARUP
A.P.P.L.E. Price	$10.00
Sug. Retail	N/A
Ship.Wt.	4 oz.

Total rewrite of original Carpenter program. Improved flexibility. Includes new documentation.

MULTI-TRIEVE
1.4 Upgrade

Product Code	SMULUP
A.P.P.L.E. Price	$10.00
Sug. Retail	N/A
Ship.Wt.	5 oz.

Now transfers Multi-Trieve files to and from DOS 3.3 text files and DIF files. Includes supplemental Document. Now supports all 80-column cards.

Updates & Upgrades

SPREADSHEET
Update

Added driver to utilize SSD as extra RAM. Also utilizes extra RAM from 80 column card on the IIe.

Requests and payments for this update must be sent directly to the manufacturer: ArtSci, 10432 Burbank Blvd., North Hollywood, CA 91601.   **$10.00**

BIG MAC.C
Update

Requests and payments for this update must be sent directly to the manufacturer: Roger Wagner Publishing, 10761 Woodside Ave. E., P.O. Box 582, Santee, CA. 92071.   **$20.00**

Software

This price list supercedes all others and does not include special offers, shipping and handling outside the United States, or Washington State sales tax. Prices are subject to change without notice. Members outside the U.S. add shipping and handling charges to all orders. Washington State residents add 8.1% sales tax.
Most software is Apple IIe compatible.

All of our software is sold "un–protected" and is easily backed up with any standard copy program (some of our commercial label products however are protected).
Unless otherwise specified, all program packages require at least 48K of RAM, Applesoft in ROM or on Lang/Ram card, and one disk drive with DOS3.3.
Please use bold face product name and code when ordering.

AMPERMANAGER

Product Code	SAMP
A.P.P.L.E. Price	$22.50
Sug. Retail	N/A
Ship.Wt.	4 oz.

A package which enhances Applesoft through the ampersand command. It can issue shorthand commands, uses shift key for lower case (lower case chip required), enhances the input facility, provides print using, provides better interface with memory, enhances DOS (even providing read/write of specified track/sectors) and enhances string manipulation. A must for the Applesoft programmer.

AP GRAPHICS: "The Filler"

Product Code	SFLR
A.P.P.L.E. Price	$17.00
Sug. Retail	N/A
Ship.Wt.	4 oz.

Useful tool for game and applications developers requiring FAST, colorful, high–resolution quality graphic displays. "The Filler" features a fast machine language program that is easily transferred to your BASIC programs. The simple Ampersand commands make this graphics utility easy to control. You may fill any area of the Apple screen with up to 21 colors & a myriad of user–definable patterns. You can create and edit your own unique hi–res pictures with the easy–to–use picture editor. Document covers all aspects, functions, and uses of this fine tool, but assumes you have a working knowledge of Applesoft BASIC.

See also: "Graphics Builder," listed with the Value–Soft Programs.

THE APPLESOFT CARPENTER

Product Code	SCAR
A.P.P.L.E. Price	$18.50
Sug. Retail	N/A
Ship.Wt.	4 oz.

A collection of seven utilities which enhances programming productivity.
>   **The Lister:** provides formatted listings of Applesoft programs.
>   **The Comparer:** compares two Applesoft programs.
>   **The Cruncher:** compacts Applesoft programs.
>   **The Converter:** converts Integer Basic files to Applesoft.
>   **The Constructor:** allows Integer Basic to be converted to Applesoft format to provide back up documentation of original program.
>   **The Finder:** finds all occurrences of a string.
>   **The Keeper:** allows you to preserve variables during line editing.

This diskette is a much revised version of the original Carpenter.

AP FILE

Product Code	SAPF
A.P.P.L.E. Price	$18.50
Sug. Retail	N/A
Ship.Wt.	2 oz.

Serial line editor for creating and easily editing sequential (EXEC) text files. Accompanying utilities offer ability to display disk and RAM memory in various formats, transfer text and binary files, list and change the location of Applesoft programs in memory and more. Documentation explains how programmers may modify and expand the line editor to their own specific applications.

Software

AP MAIL II
Version 3.0

Product Code	SAM3
A.P.P.L.E. Price	$25.00
Sug. Retail	N/A
Ship. Wt.	3 oz.

ApMail is designed to be easy to learn and use with fast data entry/retrieval. Sorting may be performed on any one of the 10 data fields, supports the printing of 1–up to 4–up labels, and stores up to 800 names per diskette. Full documentation is included for properly configuring the program to your system. Version 3.0 is compatible with previous versions of ApMail.

AP MAIL II
Version 3.0 to
AP MAIL.Pro Upgrade

Product Code	SAPMUP
A.P.P.L.E. Price	$10.00
Sug. Retail	N/A
Ship. Wt.	1 oz.

Please specify the serial number of your original disk.

APMAIL.PRO
By Ken Kashmarek,
D.D.Redhed and
F.W.Merchant

Product Code	SAPMPR
A.P.P.L.E. Price	$35.00
Sug. Retail	N/A
Ship. Wt.	3 oz.

A new enhanced version of A.P.P.L.E's excellent mail data base program, ApMail II (Version 3.0), to run on the expanded capabilities of Apple Computer's ProDOS. ApMail.Pro utilizes a new machine language sort that runs nearly 400% faster and programs are also renumbered to facilitate user modification. Utilities have also been provided for easy DOS 3.3 ApMail conversion with additional fields for the search and sort subroutines. Thorough knowledge of ProDOS commands required for use of this program.

AP TEST

Product Code	SAPT
A.P.P.L.E. Price	$18.50
Sug. Retail	N/A
Ship. Wt.	2 oz.

Low–cost diagnostics program designed to thoroughly test your Apple. ApTest features tests of both RAM & ROM memory, modem, keyboard, disk drive speed, drive head alignment, drive controller card and the game I/O. Documentation is included and addresses the subject of head alignment and adjusting drive speed yourself. Will test Apple II, II+ and *IIe*.

CALCSTAR

Product Code	SCALST
A.P.P.L.E. Price	$115.00
Sug. Retail	$195.00
Ship. Wt.	2 lbs.

CalcStar is an advanced electronic spreadsheet program with features including variable column widths, decimal precision, logarithms, exponents and linear regression. Compatible with WordStar, the user has available boldface, underlining and other features. Requires CP/M card.

BIG MAC.C

Product Code	SMACC
A.P.P.L.E. Price	$40.00
Sug. Retail	N/A
Ship. Wt.	1 lb.

Powerful, co–resident editor/assembler for which Ted II+ and BIG MAC.LC files are upward–compatible. Easy–to–use program features MACRO capability, fast (2000:3000 lines/minute) conditional assembly, full feature editor, support of all 6502 and the new 65C02 opcodes, Sweet 16 pseudo–opcodes, and all logical and math operations. In addition, you may generate up to three different symbol tables (alpha by label, numerical by address, cross–referenced by line). For development of very large programs, the source code may be assembled directly from disk and the object code itself assembled directly to disk. An extensive well–written manual is included (193 pages). The stand–alone disassembler provided handles 65C02 opcodes and generates compatible source code. Bonuses include a variety of useful assembly language routines, and a clever system to print a labeled and commented disassembly. *IIc compatible.*

DATASTAR

Product Code	SDATST
A.P.P.L.E. Price	$175.00
Sug. Retail	$295.00
Ship. Wt.	5 lbs.

DataStar is a comprehensive database program. This program includes help screens, extra help messages, and on–screen prompts. In addition, DataStar protects against incorrect entries, provides accurate calculations of up to 14 digits, and will gather information from separate reference files. Requires CP/M card.

DICE

Product Code	SDIC
A.P.P.L.E. Price	$12.50
Sug. Retail	N/A
Ship. Wt.	2 oz.

Special routines designed specifically for use with lower case adapters such as ApLCase, Dan Paymar and all others. DICE makes it easy to type in and display UPPER and lower case characters and special symbols directly from the keyboard. Utility also features a scrolling speed control, stop/start list, handy control character functions, non–flashing cursor and detailed instructions for making the "shift key" modification to your Apple.

E-Z PILOT

Product Code	SEAP
A.P.P.L.E. Price	$28.50
Sug. Retail	N/A
Ship. Wt.	4 oz.

An easy–to–use version of Apple Pilot, especially useful to school teachers and parents. You and the children will enjoy interactive computer sessions. The diskette comes with several sample lessons and straightforward instructions on how to create your own. Pictures created by the Koala Pad, Applesoft shape tables or other graphics generation methods may be freely mixed with the text of your lessons. Programs can talk to your students if your computer is equipped with a Mockingboard. Also features a fast DOS, Diversidos and moves DOS to the language card.

Software

ⓘ ⓘ
DIRECTORY
TITLE WRITER
By Val Golding

Product Code	STITWR
A.P.P.L.E. Price	$15.00
Sug. Retail	N/A
Ship.Wt.	2 oz.

A DOS 3.3 utility that lets you create elaborate and fancy catalog titles. Type inverse, flash, and lower case directly from the keyboard. Program comes complete with documentation.

ⓘ ⓘ
DRIVE ANALYZER
DISKETTE

Product Code	SDAN
A.P.P.L.E. Price	$32.00
Sug. Retail	$39.95
Ship.Wt.	9 oz.

This precision alignment diskette is a sure way to determine if your disk drive is operating properly. Menu–driven tests determine state of radial alignment, disk centering, speed and write/read. From Verbatim.

ⓘ ⓘ ⓘ
HIGHER FONTS 1

Product Code	SHFI
A.P.P.L.E. Price	$13.00
Sug. Retail ·	$15.00
Ship.Wt.	1 oz.

Need extra character sets for Higher Text Plus, but don't wish to create them? Higher Fonts is a collection of over 25 different fonts or character sets for use with Higher Text Plus. Fonts vary from foreign and ancient language alphabets to special math and scientific symbols and game building characters. Use of fonts is demonstrated by several display programs.

ⓘ ⓘ ⓘ
HIGHER TEXT PLUS

Product Code	SHTP
A.P.P.L.E. Price	$27.50
Sug. Retail	$40.00
Ship.Wt.	4 oz.

Generate upper and lower case text in a variety of typefaces, sizes, and colors from your programs for display on the Apple hi–res screen. Features an easy–to–use editor for generation of your own unique character sets (fonts), several utilities to enhance your creation of hi–res displays, wide range of sample fonts, and full documentation. (Note: this program requires and assumes a full working knowledge either Integer or Applesoft BASIC.)

ⓘ ⓘ
INFOSTAR

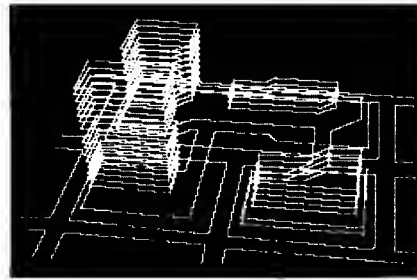| Product Code	SINFST
A.P.P.L.E. Price	$295.00
Sug. Retail	$395.00
Ship.Wt.	8 lbs.

Info Star is an extremely powerful, yet easy–to–use, data–base management system. Four levels of help menus guide the user through each step of data entry form design, sorting and report generation. Transaction processing and automatic updating enable the user to easily update records across file boundaries. InfoStar provides up to nine control breaks, arithmetic calculations within the report, and allows the user to incorporate data from multiple files. Print enhancement features include bold facing and underlining of selected data fields. InfoStar for the Apple requires a CP/M card and and 48K of memory. Requires CP/M card.

ⓘ ⓘ
IMAGINATOR

Product Code	SIMAG1
A.P.P.L.E. Price	$60.00
Sug. Retail	$129.95
Ship.Wt.	2 lbs.

An exciting new series of professional quality 3D GRAPHICS programs. IMAGINATOR will let anyone interested in computer graphics create, edit, manipulate and display 3D graphics images. You do not have to be a programmer to use IMAGINATOR. Three–dimensional objects can be created without drudgery using IMAGI-NATOR's powerful graphics editor. Once the objects have been created, they can be manipulated and displayed in a variety of ways using IMAGINATOR's unique and highly versatile set of interactive display commands. Images can be displayed on the Apple II hi–res screen, dumped to printer or saved to disk as binary picture files. Works with the Apple II, II+ or IIe and requires 48K and one disk drive. Program is unprotected and includes complete documentation.

IMAGINATOR
SOURCE LISTING

Product Code	PIMAGS
A.P.P.L.E. Price	$30.00
Sug. Retail	N/A
Ship.Wt.	1 lb.

Over 100 pages of commented source listing for 3D program: IMAGINATOR. It lets the user see program logic flow, how graphics were done, and the complete source listing for the true computer hacker.

Call-A.P.P.L.E.
IN DEPTH

Diskettes containing all programs published in *Call -A.P.P.L.E.* IN DEPTHs:

Vol 1,
"All About Applesoft"
Diskette

Product Code	SIN1
A.P.P.L.E. Price	$16.50
Sug. Retail	N/A
Ship.Wt.	1 oz.

Vol 2,
"All About Pascal"
Diskettes

Product Code	SIN2
A.P.P.L.E. Price	$20.00
Sug. Retail	N/A
Ship.Wt.	3 oz.

Vol 3,
"All About DOS"
Diskettes

Product Code	SIN3
A.P.P.L.E. Price	$15.00
Sug. Retail	N/A
Ship.Wt.	2 oz.

Software

LIFESAVER

Product Code	SDISRE
A.P.P.L.E. Price	$21.00
Sug. Retail	$100.00
Ship.Wt.	5 oz.

The Lifesaver is the most advanced and easy–to–use disk recovery program on the market today. It checks disk drive speed and selects drive closest to the speed your disk was recorded on. It then scans disks, track by track, recovering data files without going through the VTOC and displays results on the screen. Lifesaver READs: Information from damaged sectors (unlike other copy/recovery programs that crash at the damaged sectors), disks that were recorded off–center, and disks with errors caused by hub damage. Lifesaver grades and fixes all possible files and makes recovered files accessible for conventional editing. For use on DOS 3.3, Pascal, and CP/M Disks.

LISA QUICKDRAW DEMO DISKETTE
by David Redhed

Product Code	SQDRAW
A.P.P.L.E. Price	$39.50
Sug. Retail	N/A
Ship.Wt.	2 oz.

This diskette has three Pascal Workshop programs demonstrating QuickDraw graphics. Annotated source code is included to illustrate how QuickDraw is accessed through Pascal. Several features similar to the Office System graphics have been implemented through Pascal procedures in a form adaptable to your own programs.

Program #1: Eleven separate aspects of QuickDraw illustrated in a program using mouse–selectable menus.
Program #2: A version of Apple Computer's QDSample with annotated source code.
Program #3: Illustrates the use of multiple grafPorts in QuickDraw. GrafPorts are the basis for all multiple window effects in the Lisa Office System.

The diskette contains a text file with additional information for running the demo programs. Also included are three Exec files to aid you with compilation and linking when you make changes to the source code.

MAILMERGE

Product Code	SMAILM
A.P.P.L.E. Price	$175.00
Sug. Retail	$195.00
Ship.Wt.	3 lbs.

MailMerge is a versatile file merging tool that works with WordStar. It is commonly used to generate personalized form letters, invoices, and mailing labels. "If...then..." statements can be used to select data records. MailMerge also eliminates repetitive typing of often used paragraphs with its "file insert" capability, and it allows for chain printing of documents, such as chapters in a book. Requires CP/M card.

MULTI–TRIEVE

Product Code	SMUL
A.P.P.L.E. Price	$50.00
Sug. Retail	N/A
Ship.Wt.	9 oz.

Multi–Trieve is a Data Base system designed to manage a moderate amount of information more efficiently. You can easily create mailing lists, household inventories, and cross–referenced lists for a small library using this program. Fast horizontal scrolling is built in so that you may quickly view all the information associated with any entry. Limited data type checking is provided at data entry time, and the structure of a dataset can be changed even after data are added to a file. Stored information can be retrieved for viewing of reports on the screen or for generating forms/labels on the printer. Entries may be selected using multiple criteria including value ranges. Multi–Trieve data can also be made accessible to DOS 3.3 programs in text or DIF format. Thus data may be moved to and from many programs such as word processors and THE Spreadsheet.
Now supports all 80–column cards.

PROGRAM LINE EDITOR

Product Code	SPLE
A.P.P.L.E. Price	$15.00
Sug. Retail	$40.00
Ship.Wt.	3 oz.

Very popular utility package that features user–definable keyboard MACROs, programmable cursor, powerful line editor, upper/lower case input (without loading special driver routines) with AplCase or other lower case adapter, handy 'stop list', and the whole works is transparent to you and your program until called upon! Highly recommended to those who take apart and change their programs and hate to edit/retype lines with their Apple's escape codes.

PROGRAM GLOBAL EDITOR

Product Code	SPGE
A.P.P.L.E. Price	$18.50
Sug. Retail	$39.95
Ship.Wt.	2 oz.

Utility for Applesoft programs that features global search, edit and replace, automatic line number and renumber capability, optimized listing of program to screen/printer, formatted hex dumps of memory, and compatibility with the Program Line Editor. Makes a great program development tool!

Software

II+ⓔ
PROFESSIONAL OPTIONS PACK

Product Code	SPWSOP
A.P.P.L.E. Price	$195.00
Sug. Retail	$345.00
Ship.Wt.	3 lbs.

Designed for the WordStar user, the Options Pack includes MailMerge, SpellStar and StarIndex at a cost that is substantially less than the cost if ordered separately.

II+ ⓔ ⓒ
PROZAP
By Gary Charpentier

Product Code	SPZAP
A.P.P.L.E. Price	$25.00
Sug. Retail	N/A
Ship.Wt.	3 oz.

A new utility uses intrinsic ProDOS routines to read, edit and write any ProDOS block or DOS 3.3 sector all from the ProDoS environment. The disk also contains a utility for dump to disk, printer or monitor, a hex or hex/ASCII listing or disassembly with a search routine for hex or ASCII bytes. Complete with documentation for ProZap only, not ProDos.

II+ ⓔ
REPORTSTAR

Product Code	SREPST
A.P.P.L.E. Price	$205.00
Sug. Retail	$350.00
Ship.Wt.	6 lbs.

ReportStar is a report generator program, with the ability to create a simple list of information or a complex, sophisticated report, depending on your need. Seven major features include quick report, report format editing, a print enhancement package, field totaling, transaction processing, form sorting, and the ability to write reports to disk. Requires CP/M card.

II+ ⓔ
SOFT SEVENTY

Product Code	SS70
A.P.P.L.E. Price	$20.00
Sug. Retail	$49.95
Ship.Wt.	3 oz.

Utility program package for generating a 70–column display. Machine language program features a full 96–character redefinable ASCII upper/lower case graphic character sets. Toggle of fonts and toggle of 40/70–column screens, text charcter set, window inversion and overstrike. Compatible with modems (see Feb '83 issue of *Call–A.P.P.L.E.*), Applesoft, Integer, and machine language programs that use the normal Apple I/O hooks. Soft Seventy requires monitor for best readability and is not compatible for most word processing applications.

II+ ⓔ
SPELLSTAR

Product Code	SSPEST
A.P.P.L.E. Price	$147.00
Sug. Retail	$195.00
Ship.Wt.	2 lbs.

SpellStar is a spelling checker that works with WordStar to find spelling and typing errors. SpellStar scans documents, comparing the words in the document with the words in its 20,000 word dictionary. Errors are highlighted in context and the user has the choice of fixing the word, adding it to the supplemental dictionary, bypassing the word, or ignoring it throughout the document. Requires CP/M card.

II+ ⓔ
STARINDEX

Product Code	SSTIND
A.P.P.L.E. Price	$115.00
Sug. Retail	$195.00
Ship.Wt.	2 lbs.

StarIndex allows the user to create text reference aids such as an alphabetized index with subentries, a table of contents with up to four levels of emphasis, a list of figures and tables, and an outline – all in the user's personal style. Requires CP/M card.

II+ ⓔ
SUPERSORT

Product Code	SSUPSO
A.P.P.L.E. Price	$147.00
Sug. Retail	$250.00
Ship.Wt.	3 lbs.

SuperSort is a flexible and extremely fast utility for sorting, merging and selecting information from data files. It allows a wide variety of user–specified criteria during the sort/merge process. SuperSort works with ASCII, BCD, and binary data and can be used to change variable length record files into fixed length record files. Requires CP/M card.

II+ ⓔ
SYMBOL SYMON

Product Code	SSYM
A.P.P.L.E. Price	$20.00
Sug. Retail	N/A
Ship.Wt.	3 oz.

Easy–to–use development and debugging tool that is designed to assist the assembly language programmer. Symbol Symon makes it simple to understand and debug your programs with step and trace from address to address, address to label (uses symbol table generated from BIG MAC/MAC.LC Editor/Assembler), even label to label. Insert up to 8 BRK points, display memory in both Hex and ASCII, set up and use your own zero page of memory, experiment with the COUT simulator, and more! Program comes with documentation and is a fine addition to your machine language program development library.

II+ ⓔ ⓒ
THE SPREADSHEET
Version 2.0

Product Code	STSS
A.P.P.L.E. Price	$65.00
Sug. Retail	$149.95
Ship.Wt.	2 lbs.

THE Spreadsheet Version 2.0 is a "new generation" spreadsheet calculator program with all the basic features necessary for creation of complicated models, and many advanced features too. THE Spreadsheet Version 2.0 supports:
* *Most popular 80 column boards.*
* *Optional seventy column software display.*
* *All "language card" compatible RAM cards (up to 512K).*
* *Supports full upper and lower case from any Apple computer.*
* *Variable column widths.*
* *Protected cells, hidden cells, and other advanced features.*
* *Field to field tabbing, for easy data entry.*
* *Hard disk compatibility.*

Utilizes extra RAM from 80 column card on the IIe.

Software

ⓘ ⓘ THE SPREADSHEET 1.0 TO 2.0 FILE CONVERTER

Product Code	STSC
A.P.P.L.E. Price	$5.00
Sug. Retail	N/A
Ship.Wt.	1 oz.

Converts data files created by THE Spreadsheet 1.0 to a format that can be used by THE Spreadsheet 2.0.

ⓘ ⓘ TURTLESOFT

Product Code	STUR
A.P.P.L.E. Price	$22.50
Sug. Retail	N/A
Ship.Wt.	8 oz.

A new graphics program requiring little knowledge of Applegraphics. Program has great educational potential. All commands are accessed through the Ampersand vector. Now you can use commands like: & "DRAW", & "LEFT"5, & "FORWARD"10, etc. to create procedures that will draw geometric figures on your screen based on LOGO and the famed Turtlegraphics. Comes with a soundroutine, collison detection, split screen graphics and macrodefinitons. Enjoy some of the features of LOGO from the comfort of your own BASIC.

ⓘ III CHEERS! A Quarterly Diskette Magazine

Product Code	SCHEER
A.P.P.L.E. Price	$40.00
Sug. Retail	N/A
Ship.Wt.	4 oz.

A bold new concept in publishing, III Cheers brings news, learning, entertainment and technical support to Apple III owners through disk-based articles and programs. The magazine supports the Boats™ window-oriented environment, allowing the user to interactively view information on the screen. Alternately, the magazine can be sent to a printer for more traditional reading. Includes two diskettes. Requirements: an Apple III or III+ — screen viewing requires 256K of memory. $40.00 for one year subscription.

$12.50 for a single issue.
Single issue product codes:

SCHE1	Summer 1984	(shipping weight
SCHE2	Fall 1984	1 oz. each)
SCHE3	Winter 1985	
SCHE4	Spring 1985	

ⓘ ⓘ THE WORDSTAR PROFESSIONAL

Product Code	SPWSPR
A.P.P.L.E. Price	$450.00
Sug. Retail	$695.00
Ship.Wt.	9 lbs.

Combines WordStar with its options: MailMerge, SpellStar, and StarIndex in a two binder set. It provides all the tools needed for professional word processing at an attractive price. Includes StarCard.

ⓘ ⓘ WORDSTAR or INFOSTAR plus STARCARD

Product Code	*
A.P.P.L.E. Price	$325.00
Sug. Retail	$495.00
Ship.Wt.	8 lbs.

A new package offering you a choice of either Word-Star or InfoStar plus the StarCard. The StarCard has 64K RAM, uses CP/M Operating System 2.2, has a Shift Modification Device and has 40-255 column horizontal scroll capability.
* WordStar   SPWORD
   InfoStar   SPINFO

ⓘ ⓘ UTILITY DISKPAK 6B-16

Product Code	SD6B
A.P.P.L.E. Price	$18.50
Sug. Retail	N/A
Ship.Wt.	1 oz.

Great utility package that allows you to copy standard disks, map them for bad and unused sectors, reconstruct blown catalogs and physically change existing data, all with a single disk drive! A good set of programs to have tucked away with the Apple DOS manual and Beneath the Apple DOS book.

ⓘ ⓘ ⓘ ⓘ ZARDAX

Product Code	*
A.P.P.L.E. Price	$160.00
Sug. Retail	$210.00
Ship.Wt.	2 lbs.

Professional-quality word processing easy enough for the beginner to use. Menus for disk and document handling. Editing commands are easy to remember. A Glossary feature allows you to define phrases used repeatedly which you may recall with only two keystrokes. Mail merge is included for form letters or mailing lists. 40 or 80 column display with most popular 80 column cards supported. A complete set of print formatting commands tailored for each printer (over 40 of them, or write your own); you rarely need to remember "control codes" or face the back end of a printer manual. ZARDAX uses standard text files. A printer spooling or pseudo-disk capability is provided (requires 128K RAM card or auxiliary memory). "Chaining" for long documents. Headers, footers, sub-scripting and super-scripting.

This program is copy-protected. Two diskettes are supplied. New features and updates are released periodically on a copyable "utilities" disk. ZARDAX for the II+, IIc or IIe uses DOS 3.3. Extra keyboard connector REQUIRED for II+ (unless you have an Enhancer II). *See Hardware Section for Zardax Keyboard Connector.*

ZARDAX for the III uses SOS, and adds extra features: up to 197K files, reads, writes and converts ASCII or Pascal text files.

* Please specify II,II+ ,IIe,IIc or III by choosing the appropriate Product Code.

II,II+ ,IIe,IIc	SZARII
III	SZARDA

Software

PDS
PUBLIC DOMAIN
SOFTWARE
(Each disk Vol)

Product Code	•
A.P.P.L.E. Price	$5.00
Sug. Retail	N/A
Ship.Wt.	1/2 oz. each

Variety of programs at a low cost of 15 to 25 cents per program! Disks contain everything from graphic demos/games to disk and printer utilities, tutorials, business and inventory programs to Pascal and C/PM. Below is a complete listing of our PDS Library, arranged by subject or send us a 37–cent stamped self–addressed envelope for a listing of all the programs on each volume. Please specify volume number when ordering.(Foreign shipping weight: 1/2 oz each disk.)

VOLUME	TYP	DESCRIPTON
PDS–000	INT	APPLE TUTOR
PDS–001	MIX	APPLE TUTOR
PDS–003	AFP	APPLE TUTOR
PDS–005	MIX	HIGHER TEXT UTILITIES
PDS–006	AFP	POLICE – DATA/PLAN
PDS–008	INT	ART & GRAPHICS
PDS–009	INT	ART & GRAPHICS
PDS–010	AFP	ART & GRAPHICS
PDS–011	INT	ART & GRAPHICS
PDS–012	AFP	ART & GRAPHICS
PDS–013	MIX	ART & GRAPHICS
PDS–014	AFP	ART & GRAPHICS
PDS–015	INT	ART & GRAPHICS
PDS–016	AFP	ART & GRAPHICS
PDS–017	INT	ART & GRAPHICS
PDS–028	AFP	ASTRONOMY
PDS–029	AFP	ASTRONOMY
PDS–034	AFP	AVIATION
PDS–036	AFP	AVIATION
PDS–042	AFP	BUSINESS & FINANCE
PDS–043	AFP	BUSINESS & FINANCE
PDS–044	AFP	BUSINESS & FINANCE
PDS–045	AFP	BUSINESS & FINANCE
PDS–046	AFP	BUSINESS & FINANCE
PDS–047	AFP	BUSINESS & FINANCE
PDS–048	AFP	BUSINESS & FINANCE
PDS–060	MIX	CHEMISTRY & BIOLOGY
PDS–066	MIX	EDUCATION & SCHOOL
PDS–067	AFP	EDUCATION & SCHOOL
PDS–074	MIX	MORSE CODE
PDS–075	MIX	MODEM
PDS–076	AFP	ELECTRONICS & RADIO
PDS–077	AFP	ELECTRONICS & RADIO
PDS–078	AFP	ELECTRONICS & RADIO
PDS–079	INT	ELECTRONICS & RADIO
PDS–092	AFP	FOOD
PDS–100	AFP	GAMES
PDS–101	INT	GAMES
PDS–102	AFP	GAMES
PDS–103	INT	GAMES
PDS–104	AFP	GAMES
PDS–105	INT	GAMES
PDS–106	AFP	GAMES
PDS–107	AFP	GAMES
PDS–108	AFP	GAMES
PDS–109	INT	GAMES
PDS–110	INT	GAMES
PDS–111	INT	GAMES
PDS–112	INT	GAMES
PDS–113	INT	GAMES
PDS–114	INT	GAMES
PDS–115	INT	GAMES
PDS–116	AFP	GAMES
PDS–117	INT	GAMES
PDS–118	AFP	GAMES
PDS–119	INT	GAMES
PDS–120	AFP	GAMES
PDS–140	INT	ADVENTURE GAME
PDS–141	AFP	ADVENTURE GAME
PDS–142	AFP	ADVENTURE GAME
PDS–143	AFP	ADVENTURE GAME
PDS–166	AFP	HELLO & MENU PROGRAMS
PDS–167	INT	HELLO & MENU PROGRAMS
PDS–172	AFP	MATH & STATISTICS
PDS–173	INT	MATH & STATISTICS
PDS–174	AFP	MATH & STATISTICS
PDS–175	INT	MATH & STATISTICS
PDS–176	AFP	MATH & STATISTICS
PDS–182	INT	MUSIC & SOUND
PDS–183	MIX	MUSIC & SOUND
PDS–185	INT	MUSIC – MAESTRO
PDS–196	AFP	MISCELLANEOUS
PDS–197	INT	MISCELLANEOUS
PDS–198	MIX	MISCELLANEOUS
PDS–199	INT	MISCELLANEOUS
PDS–200	AFP	MISCELLANEOUS
PDS–201	MIX	MISCELLANEOUS
PDS–210	AFP	MISCELLANEOUS
PDS–214	AFP	UTILITIES
PDS–215	INT	UTILITIES
PDS–216	AFP	UTILITIES
PDS–217	AFP	UTILITIES
PDS–218	INT	UTILITIES
PDS–219	INT	UTILITIES
PDS–220	AFP	UTILITIES
PDS–221	INT	UTILITIES
PDS–222	AFP	UTILITIES
PDS–223	INT	UTILITIES
PDS–224	AFP	UTILITIES
PDS–225	INT	UTILITIES
PDS–226	MIX	UTILITIES
PDS–227	AFP	EPSON UTILITIES
PDS–228	AFP	EPSON GR DUMP
PDS–253	INT	APPLE SOFTWARE BANK
PDS–254	MIX	APPLE SOFTWARE BANK
PDS–255	MIX	APPLE SOFTWARE BANK

PASCAL

PAS–001	PAS	MISCELLANEOUS
PAS–002	PAS	MISCELLANEOUS
PAS–003	PAS	MISCELLANEOUS
PAS–004	PAS	MISCELLANEOUS
PAS–005	PAS	MISCELLANEOUS
PAS–006	PAS	ATTACH.BIOS
PAS–007	PAS	MISCELLANEOUS
PAS–008	PAS	MISCELLANEOUS
PAS–009	PAS	MISCELLANEOUS
PAS–010	PAS	MISCELLANEOUS
PAS–011	PAS	MISCELLANEOUS
PAS–012	PAS	PAYROLL/LEDGER

Software

INTERNATIONAL APPLE CORE

IAC–002	MIX	MISCELLANEOUS
IAC–003	INT	GAMES
IAC–005	MIX	ART & GRAPHICS
IAC–007	AFP	UTILITIES
IAC–008	MIX	GAMES
IAC–009	MIX	MATH & CONVERSION
IAC–010	AFP	ART & GRAPHICS
IAC–012	MIX	UTILITIES
IAC–013	AFP	UTILITIES
IAC–014	AFP	MICROMODEM UTILITIES
IAC–015	MIX	MISCELLANEOUS
IAC–016	AFP	MISCELLANEOUS
IAC–017	INT	GAMES
IAC–018	AFP	UTILITIES & SOUND
IAC–019	AFP	UTILITIES
IAC–020	AFP	UTILITIES
IAC–21A	AFP	BULLETIN BOARD PART 1
IAC–21B	AFP	BULLETIN BOARD PART 2
IAC–022	AFP	VISICALC UTILITIES
IAC–027	AFP	UTILITIES
IAC–029	AFP	BINARY UTILITY GRAPHICS
IAC–30A	AFP	ED'S PLOT PACKAGE PART 1
IAC–30B	AFP	ED'S PLOT PACKAGE PART 2

CP/M

CPM–01A	CPM	UTILITIES
CPM–01B	CPM	UTILITIES
CPM–51A	CPM	MACRO PROCESSOR PART 1
CPM–51B	CPM	MACRO PROCESSOR PART 2
CPM–60A	CPM	DIAGNOSTICS
CPM–60B	CPM	DIAGNOSTICS
CPM–61A	CPM	MISCELLANEOUS
CPM–61B	CPM	MISCELLANEOUS
CPM–66A	CPM	ASSORTED HELP FILES
CPM–66B	CPM	ASSORTED HELP FILES
CPM–76A	CPM	MISCELLANEOUS
CPM–76B	CPM	MISCELLANEOUS
CPM–83A	CPM	MATH
CPM–83B	CPM	MATH
CPM–84A	CPM	MODEM PROGRAMS

Games

CATER KILLER
By Jeff Koftinoff

Product Code	SCATKI
A.P.P.L.E. Price	$12.50
Sug. Retail	N/A
Ship.Wt.	2 oz.

Cater Killer is a multi–level action arcade game that can be played with keyboard or joystick providing hours of enjoyment for young and old alike. The scenario is that you are alone in a world populated by Cater Killers which are very hazardous to your health. You must take food away from the baby Cater Killers and if you get all eight foodstuffs, you advance to the next level. There are three screens and several levels.

COSMIC COMBAT

Product Code	SCCO
A.P.P.L.E. Price	$12.50
Sug. Retail	$29.95
Ship.Wt.	1 oz.

Fast moving and challenging arcade graphics game. Features sound effects, colorful Hi–Res action and multiple skill levels. Requires game paddles or joystick.

DISPAK 7

Product Code	SD7
A.P.P.L.E. Price	$17.50
Sug. Retail	N/A
Ship.Wt.	2 oz.

Two separate diskettes chocked full of textual and graphic games and simulations for the child in all of us. Includes a haunted mansion and the ever popular "TRIK 1.0 CONTRACT BRIDGE" with complete instructions. Requires Integer in ROM or a RAM card.

KOALAGRAMS SPELLING I

Product Code	SKOALA
A.P.P.L.E. Price	$31.50
Sug. Retail	$39.95
Ship.Wt.	3 oz.
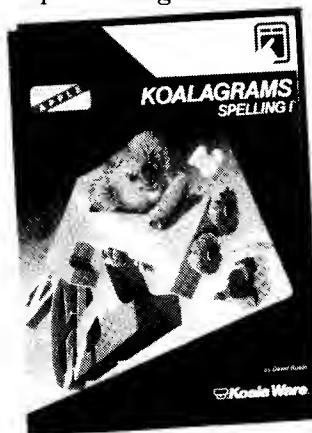
Your mission is to pilot your chopper through dangerous skies to recover secret words . . . letter by letter . . . and in exactly the right order. Comes with a 400 word vocabulary and is an entertaining spelling teacher for children ages 6 and up. Requires KoalaPad and is compatible with the II, II+, and IIe.

Games

EAMON ADVENTURE VOLUMES

Product Code	SEAMON
A.P.P.L.E.Price	$5.00
Sug. Retail	N/A
Ship.Wt.	1/2 oz. each

An adventure game that takes you back to the days of sorcerers and magic. Encounter various obstacles requiring different responses depending on your character. Great fun for the wise. (You will need the Beginner's Cave in order to run any of the other Eamon Adventures.)

Eamon   0– Dungeon Designer Eamon
Eamon   1– The Beginner's Cave
Eamon   2– Lair of the Minotaur
Eamon   3– Cave of the Mind
Eamon   4– Zyphur River Venture
Eamon   5– Castle of Doom
Eamon   6– Death Star
Eamon   7– Devil's Tomb
Eamon   8– Abductor's Quarters
Eamon   9– Assault on the Clone Masters
Eamon 10 – Magic Kingdom
Eamon 11 – Molinar's Tomb
Eamon 12 – The Quest for Trezore
Eamon 13 – Lost Island of Apple
Eamon 14 – The Underground City
Eamon 15 – The Caves of Treasure Island
Eamon 16 – Furioso
Eamon 17 – Merlin's Castle
Eamon 18 – Hogarth Castle
Eamon 19 – Death Trap
Eamon 20 – The Black Death
Eamon 21 – Improved Dungeon Designer
Eamon 22 – The Senator's Chambers
Eamon 23 – The Temple of Ngurct
Eamon 24 – Black Mountain
Eamon 25 – Nuclear Nightmare
Eamon 26 – Assault on the Mole Man
Eamon 27 – Revenge of the Mole Man
Eamon 28 – The Gauntlet
Eamon 29 – The Caves of Mondamen
Eamon 30 – Heros Castle
Eamon 31 – The Tower of London
Eamon 32 – The Feast of Carroll
Eamon 33 – The Master's Dungeon
Eamon 34 – Crystal Mountain
Eamon 35 – The Lost Adventure
Eamon 36 – The Manxome Foe
Eamon 37 – Behind the Sealed Door
Eamon 38 – The Land of Death
Eamon 39 – The Jungles of Vietnam
Eamon 40 – The Black Castle of Nagog
Eamon 41 – The Sewers of Chicago
Eamon 42 – Caverns of Doom
Eamon 43 – Valkenburg Castle
Eamon 44 – Modern Problems
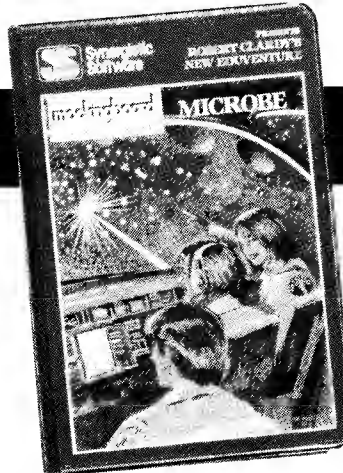
MICROBE

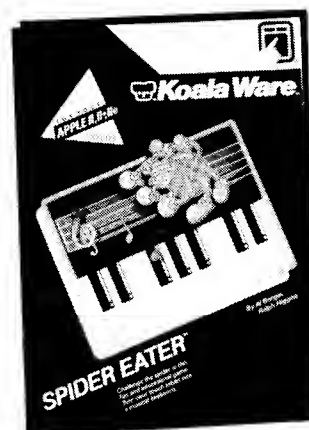| Product Code	SMIC
A.P.P.L.E.Price	$30.00
Sug. Retail	$44.95
Ship.Wt.	1 lb.

Take a journey through the blood stream of a human body and battle life threatening organisms and diseases while being careful not to injure the human host. A great science and learning arcade like adventure game from Synergistic Software.

MUMMY'S CURSE

Product Code	SMCU
A.P.P.L.E.Price	$12.50
Sug. Retail	$30.00
Ship.Wt.	1 oz.

Travel to ancient Egypt and try to recover the solid gold death mask of King Ruttattut. Hi–res adventure game has detailed color pictures, lots of mind challenging puzzles and many, many rooms. Watch out for the Mummy! The diskette is unprotected and you will able to study the internals of a professional adventure game.

SPIDER EATER
By Koala

Product Code	SSPI
A.P.P.L.E.Price	$24.00
Sug. Retail	$29.95
Ship.Wt.	3 oz.

A challenging game of musical notes and spiders. Spider Eater teaches kids note recognition, as they zap spiders from the screen scurrying home to their webs. Great computer tutor. Requires KoalaPad and works with the ll, Il+ , and IIe.

Games

THUNDERBOMBS

Product Code	STHB
A.P.P.L.E. Price	$16.00
Sug. Retail	$19.95
Ship.Wt.	4 oz.

Join a world of fast action space adventure as you engage invaders from distant worlds. Great fun for arcade addicts of all ages. The object is to dodge and maneuver your ship into attack position encountering waves of alien attackers. From Penguin Software. Mockingboard compatible.

TRANSYLVANIA

Product Code	STRA
A.P.P.L.E. Price	$25.50
Sug. Retail	$34.95
Ship.Wt.	4 oz.

A hi–res graphic adventure for the Mac. Explore the world of Transylvania and rescue a damsel in distress...but first you must find her. To do so you must travel around, use objects that you find, and solve many puzzles.

WICKERWARE #1
By Andrew Wicker

Product Code	SWICWA
A.P.P.L.E. Price	$12.50
Sug. Retail	N/A
Ship.Wt.	2 oz.

A collection of 11 fun filled and action packed games for various levels and abilities. The 11 assorted games are listed below and require an Apple and one disk drive.

Chaser — Trap — Catch — Eat Em Up
Block Em — Lunar Lander — Panic — Alien
Janitor — Depth Charge — Bouncer

Hardware

AMBER SCREEN GORILLA MONITOR

Product Code	HSRMON
A.P.P.L.E. Price	$100.00
Sug. Retail	N/A
Ship.Wt.	17 lbs.

High resolution 12″ AMBER monitor for your Apple. Features a non–glare tube with an "easy on the eyes" amber color display. Monitor has standard composite video input with a video bandwidth of at least 18 MHz. Provides a clear, legible display of a full 80 columns by 25 lines, supports almost all 80 column cards. Carries 1 year limited warranty from manufacturer and a tilt bracket on bottom for easy view. Does not work with the UltraTerm.

AP CONTROLLER

Product Code	HAPC
A.P.P.L.E. Price	$85.00
Sug. Retail	$99.95
Ship.Wt.	4 oz.

Disk controller Card by Micro–Sci that features an on–board hardware jumper to switch between DOS 3.2 and DOS 3.3.

AP L CASE 1

Product Code	HLC1
A.P.P.L.E. Price	$30.00
Sug. Retail	$39.95
Ship.Wt.	2 oz.

Lower case adapter for Apple Motherboard revision #6 and earlier (the REV 0 through REV 6 have memory select blocks located on the left hand edge of the Motherboard–position 1, rows D,E,F). Chip is compatible with both Apple BASICs, Pascal, CP/M, and most word processing software allowing lowercase display. Document shows how to install the ApLCase 1 quickly and easily so that you will be up and using lowercase in very little time.

AP L CASE 1 WITH DICE

Product Code	HLCIA
A.P.P.L.E. Price	$37.50
Sug. Retail	N/A
Ship.Wt.	3 oz.

See DICE description in Software section.

AP L CASE 2

Product Code	HLC2
A.P.P.L.E. Price	$25.00
Sug. Retail	$29.95
Ship.Wt.	1 oz.

Same features as our original ApLCase above, but specifically for those post Rev 6 apples (Rev 7 thru Rev RFI D). Includes easy installation instructions and program patches.

AP L CASE 2 WITH DICE

Product Code	HLC2B
A.P.P.L.E. Price	$30.00
Sug. Retail	N/A
Ship.Wt.	2 oz.

See DICE description in Software section.

Hardware

AP COOL KIT

Product Code	HAKK–
A.P.P.L.E. Price	$25.00
Sug. Retail	$29.95
Ship. Wt.	2 lbs.

Air conditioning for your Apple computer to keep it cool and calm during those heated times that you are not. This fan will reduce deleterious effect of heat build-up and thermal expansion. Kit contains low speed, low noise 3½″ muffin type fan, line cord with switch, mounting tape and easy installation instructions. (**NOTE: The AP COOL KIT does not fit** *IIe*).

AP DRIVE

Product Code	HAPD
A.P.P.L.E. Price	$225.00
Sug. Retail	$345.00
Ship. Wt.	6 lbs.

One hundred percent compatible, 35–track disk drive for your Apple computer or look–alike. The Ap Drive is compatible with your existing Apple Disk Controller, Ap Controller or APPLEsurance Card thus affording you cost effective floppy storage and greater system flexiblity. Ap Drive is a Shugart SA390 with a Micro–Sci Analog board and carries a 120 day warranty against defects in materials and workmanship through the manufacturer. Comes with a beige cabinet, connecting cable, manual and test disk.

APPLESURANCE

Product Code	HAUD
A.P.P.L.E. Price	$85.00
Sug. Retail	$149.95
Ship. Wt.	1 lb.

Unique disk controller card for your Apple II computer and 5¼″ disk drives. Performs diagnostics of critical Apple hardware on power up – all automatically, in seconds! Provides descriptive error messages, even indicating which IC is bad. You even have the option of selecting more tests (quick/continuous RAM/ROM, Processor, Keyboard, Color, Screen, and Drive Speed) from its on–board menu. Full documentation is included. Can you afford to be without APPLEsurance?

APPLE IIe 80 COLUMN, EXTENDED RAM BOARD

| Product Code	H80C
A.P.P.L.E. Price	$120.00
Sug. Retail	$169.95
Ship. Wt.	8 oz.

Quality board made especially for A.P.P.L.E. For the Apple *IIe* ONLY. RAM board contains 64K of memory and uses standard Apple Protocol.

APPLE III DISK DRIVE

Product Code	HDR3
A.P.P.L.E. Price	$285.00
Sug. Retail	$379.00
Ship. Wt.	6 lbs.

Model A3 by MicroSci (carries same warranty as AP DRIVE).

DUMPLING GX

Product Code	HMPC
A.P.P.L.E. Price	$130.00
Sug. Retail	$159.00
Ship. Wt.	1 lb.
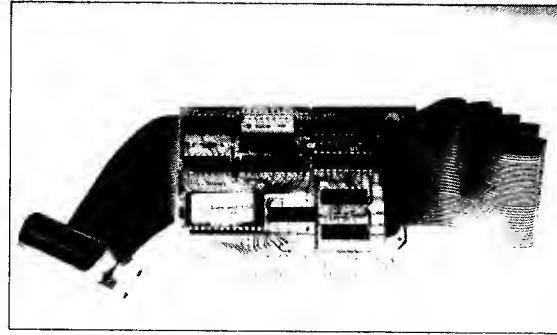
Intelligent hi–res graphics parallel printer interface card by Microtek. Dip switch selectable to work with most centronics–type printers, including Epson, Anadex, NEL, C. Itoh, Okidata, IDS, PMC, Tally, and Apple Dot Matrix. Keyboard–activated firmware features include: Dual page text or graphics dump; margin, line and page length control; block graphics; rotation; inversion; double–sized and emphasized graphics; single command firmware bypass. Manual and parallel cable included.

DUMPLING 64

Product Code	HMPD
A.P.P.L.E. Price	$180.00
Sug. Retail	$199.00
Ship. Wt.	1 lb.

Intelligent graphics printer spooler parallel interface card by Microtek. Same features as GX, but with 16K buffer, user upgradable to 64K. Large printing jobs are dumped into the buffer, thus freeing the computer for other tasks. Additional features include: Software reset, space compression, consecutive dumps, and buffer on/off. Manual and parallel cable included.

AP RAM 16K

Product Code	HP16
A.P.P.L.E. Price	$55.00
Sug. Retail	$99.95
Ship. Wt.	8 oz.

Plug in another 16K of memory to your 48K Apple with our economical 16K RAM card. Quality–made card plugs into slot 0 of your Apple and provides extra memory for loading the alternate BASIC language, Pascal, CP/M, moving DOS, and running GPLE and BIG MAC.LC as well as other software and hardware packages requiring the extra room.

Hardware

AP RAM 128K

Product Code	HP28-
A.P.P.L.E. Price	$295.00
Sug. Retail	$449.50
Ship.Wt.	1 lb.

Same features as our 16K board above, but with 128K of RAM memory instead! Our 128K card will slide into any Apple slot and, with the included software, emulate a disk drive, expand THE Spreadsheet Version 2.0, operate under CP/M and Pascal. Greatly expand your available memory with its memory expansion software. Package includes all software, hardware, and documentation needed.

GRAPHITTI

Product Code	*
A.P.P.L.E. Price	$90.00
Sug. Retail	$129.50
Ship.Wt.	2 lbs.

Intelligent parallel interface for most of today's popular dot–matrix graphics printers such as Epson (Graphtrax), C–Itoh, Prowriter I, Nec, Okidata (Microline, Okiplot), IDS (460, 560, prism), Apple Dot Matrix. On-board firmware features easy transfer of Apple graphic and text screens to printer without the loading of special software routines. In addition, you may send printer ESCape codes as control characters, set margins, line and page length, toggle high–bit, set video echo and linefeeds. Packaged with a parallel interface cable and easy–to–follow instructions. Requires Applesoft in ROM for full graphics capability.

*Please specify printer type by selecting the appropriate product code:

HGRAEP	Epson, Panasonic
HGRACI	C. Itoh Prowriter, NEC
HGRAOK	Okidata Microline
HGRAID	IDS (460,560,Prism)
HGRAAP	Apple Dot Matrix

HOBBY PROTOTYPING BOARD 11"

Product Code	HP11
A.P.P.L.E. Price	$21.00
Sug. Retail	$39.95
Ship.Wt.	5 oz.

Versatile professional board for large projects. All pins are identified by row and column and the I/O pins from the gold–plated edge connector are numbered. Accepts all standard I.C. sockets, and has convenient power and ground connections.

HOME CONTROLLER

Product Code	HHOC
A.P.P.L.E. Price	$40.00
Sug. Retail	$64.95
Ship.Wt.	8 oz.

With your Apple, a BSR X–10 Electrical controller (available at your local hardware/department stores), the VersaCard and this package, you can keep your home secure, turn electrical devices on/off, control temperature all under computer control. The Home Controller includes an ultrasonic transducer, a utility diskette and a VersaCard diagnostics diskette.

KOALAPAD TOUCH TABLET

Product Code	HPAD
A.P.P.L.E. Price	$95.00
Sug. Retail	$124.95
Ship.Wt.	2 lbs.

The KoalaPad Touch Tablet is a state–of–the–art position sensing device. It converts finger or stylus pressure and movement into electronic signals for controlling computers and is particularly useful for drawing pictures and pointing to pictures on the screen. By using the Micro Illustrator program (comes with package kit), you can create geometric shapes or draw freeform. All the options of color and design are at your fingertips from a powerful on–screen menu. It's fun to use, especially with a color monitor, and plugs into your game I/O socket. Works with the Apple II, II +, and *IIe*. We suggest purchasing a Paddle–AdApple (HPADDL), so you can leave your game controller plugged in at the same time.

KOALAPAD TOUCH TABLET (for the *IIc*)

Product Code	HKOA2C
A.P.P.L.E. Price	$95.00
Sug. Retail	$124.95
Ship.Wt.	2 lbs.

MACH II JOYSTICK

Product Code	HJOYST
A.P.P.L.E. Price	$34.00
Sug. Retail	$44.95
Ship.Wt.	1 lb.

The ultimate joystick with totally coordinated X/Y control (not just a four–way switch like many other joysticks). Stick movement is precisely translated to cursor positioning on the screen. Fine trim adjustments on both axes will enable operator to finely tune the joystick to electrical center for each software requirement. Joystick features a self centering function which can be easily disengaged. Works with Apple II and II + and comes with a full 90–day warranty.

MACH III JOYSTICK

Product Code	HJMACH
A.P.P.L.E. Price	$44.00
Sug. Retail	$59.95
Ship.Wt.	1 lb.

Same description as above. In addition, joystick features a push button switch on the stick handle and a stainless steel ball as the main pivot to provide even greater accuracy, reliability and movement.

MACH III JOYSTICK (For the *IIe*)

Product Code	HJOMA3
A.P.P.L.E. Price	$49.00
Sug. Retail	$59.95
Ship.Wt.	1 lb.

This is the same joystick as the MACH III except that it is specially designed to fit the *IIe* socket. (DB–9 connector).

Hardware

Mac
MAGICPHONE

Product Code	HMAGPH
A.P.P.L.E. Price	$180.00
Sug. Retail	$199.95
Ship. Wt.	3 lbs.

MAGICphone™ provides the Macintosh with a whole new spectrum of voice/telephone communications. Software is provided to manage and dial hundreds of phone numbers and will record and print the details (time, number, and charge) of each call. The phone log can be printed on a daily, weekly, or monthly basis. The mouse is used to select and dial any phone number, and MAGICphone uses TONE dialing to any of the lower-cost telephone carriers like SPRINT and MCl. MAGIC-phone allows control of two separate phone lines by providing a "hold" feature and can temporarily stop incoming calls (the caller will hear a busy signal).

Simply plug the MAGICphone into your Macintosh speaker jack and into your phone line. Can also be used as a stand alone telephone without Mac control.

II+ IIe
MICRO DRIVE

Product Code	HTDSDR
A.P.P.L.E. Price	$210.00
Sug. Retail	$280.00
Ship. Wt.	5 lbs.

This is a half-high 5¼" single-sided drive, compatible with most Apple diskettes. (Some highly copy-protected disks will not boot on this drive.) It features quiet operation and an insertion squeeze lever with automatic disk eject. Patches are given for DOS 3.3 40-track operation. Full one year warranty from the manufacturer. **Introductory special — the Verbatim Disk Drive Analyzer is included.** II, II+, IIe.

IIc
MICRO DRIVE
for the IIc

Product Code	HTDS2C
A.P.P.L.E. Price	$225.00
Sug. Retail	$320.00
Ship. Wt.	5 lbs.

II+ IIe
MOCKINGBOARD

Product Code	HMOBII
A.P.P.L.E. Price	$165.00
Sug. Retail	$195.00
Ship. Wt.	3 lbs.

A peripheral device that generates sound effects, music and speech from your Apple computer, Mockingboard offers unlimited vocabulary and talks as you type. You can make Mockingboard talk, sing, spell, recite poetry, add synthesized speech, music, and sound effects to your own programs, and more. Supported by dozens of software programs.

Mockingboard has two sound chips, thus two channels of sound with a total of six sound effects/music voices. There are volume controls right in the board. Includes speaker cables compatible with most stereo speakers and Mockingboard B speech upgrade.

IIc
MOCKINGBOARD
for the IIc

Product Code	HMOB2C
A.P.P.L.E. Price	$165.00
Sug. Retail	$195.00
Ship. Wt.	1 lb. 8 oz.

This is the only peripheral that provides speech, music and sound effects with software support for the IIc. It is completely self-contained and has its own onboard stereo speakers. Available for shipment in June, 1984.

II+ IIe
PADDLE-ADAPPLE

Product Code	HPADDL
A.P.P.L.E. Price	$25.00
Sug. Retail	$29.95
Ship. Wt.	5 oz.

Expand your game Paddle/Joystick/KoalaPad world with this game I/O extender. The Paddle-AdApple offers two 16-pin connector sockets on one 18 inch cable enabling you to plug in two exterior devices (i.e., Koala-Pad and Joysticks) at the same time. In addition, a fourth cable goes to a configuration block if you want to run two joysticks at the same time. The 18" cable lends more mobility to you.
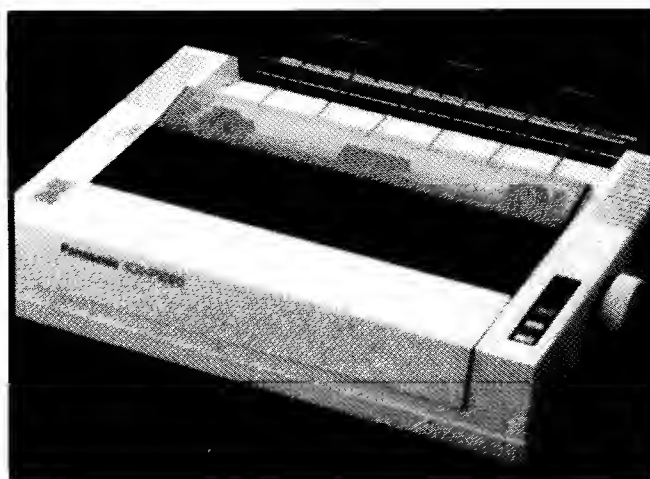
II+ IIe
PANASONIC
PRINTER KX-P1090

Product Code	HPANPR
A.P.P.L.E. Price	$325.00
Sug. Retail	$499.00
Ship. Wt.	20 lbs.

High-resolution dot matrix, dot-addressable parallel graphic printer ideally suited for personal and small business use. This printer uses the same features as the Epson MX-80, prints bi-directionally at 80 CPS(Pica) and 96 CPS(Elite) with logic-seeking capabilities. It has a 9-pin printhead for sharp copy quality and can be tractor or friction fed.

RS232C SERIAL
PRINTER OPTION
CARD

Product Code	HSERIN
A.P.P.L.E. Price	$85.00
Sug. Retail	$110.00
Ship. Wt.	1 lb.

Serial Printer Option Card for the Panasonic KX-P1090 printer listed above. This card converts the printer for serial operation and has an on-board 2K buffer and additional features. Requires a serial interface (such as the Versacard) for your computer.

PANASONIC
KX-P1090
PRINTER RIBBONS

Product Code	HPANRI
A.P.P.L.E. Price	$14.00
Sug. Retail	$19.95
Ship. Wt.	5 oz.

PROMODEM 1200
for the *IIc*

Product Code	HPRO2C
A.P.P.L.E. Price	$450.00
Sug. Retail	$495.00
Ship.Wt.	7 lbs.

POWER SUPPLY

Product Code	HPOWSU
A.P.P.L.E. Price	$85.00
Sug. Retail	$129.00
Ship.Wt.	3 lbs.

Does your Apple click and pop or come on slowly when you turn on the power switch? If so, you may need the A. P. P. L. E. replacement power supply. This power supply is compatible with the Apple ll,ll+,*IIe*. lt has a high capacity with 5 amps at 5V and 2 amps at 12V. A switch between 110/220 is built in and included is a 6ft power cord and power on light. 90–day warranty. This is a NEW (not rebuilt) unit.

MULTIMODEM *IIe* TELECOMPUTING SYSTEM

Product Code	HMOD2E
A.P.P.L.E. Price	$275.00
Sug. Retail	$329.00
Ship.Wt.	3 lbs.

A 300 baud intelligent plug–in modem card *and* MultiCom Il communications software. Serial interface card not required. Includes automatic dialing, automatic answering, busy number redialing, and phone number storage. Dial from your Apple keyboard. A speaker allows you to monitor the progress of your call. Plug in your telephone and use the same line for talking. Compatible with Apple ll,ll+,*IIe*.

PROMODEM 1200

Product Code	HPRMOD
A.P.P.L.E. Price	$450.00
Sug. Retail	$495.00
Ship.Wt.	6 lbs.

A high performance modem at an affordable price. The ProModem 1200 operates at 0–300 and 1200 baud meeting the Bell 103 and 212A standard. It also recognizes the complete command set of the popular Hayes SmartModem 1200, assuring capability with existing communication software. The intelligent dialer saves you time and trouble. lt can redial busy numbers automatically, wait for a second dial tone as you access a long distance dialing service and switch freely between pulse and tone; it even switches automatically to pulse dialing if your telephone exchange doesn't recognize tone dialing. A jack is provided for your telephone and the telephone is automatically locked out when the ProModem 1200 is in use, thus preventing loss of data. You will also appreciate the clean front panel display angled just right for easy viewing, the help menu, access to switch settings without opening the case and no bulky external power supply to fall out of your wall outlet. A built–in real–time clock can be set and read from your computer. Comes with automatic answering, built in diagnostics, status lights and a speaker for monitoring the progress of your dialing.

The standard unit comes with a modular cable for connecting ProModem 1200 to the telephone company and a DB–25S connector for the RS–232C cable going to your computer. You must supply the RS–232C serial interface in your computer and the RS–232C cable for connection between interface and modem. Versacard (HVRC) suggested for use with this unit.

PROWRITER PRINTER

Product Code	HPRT
A.P.P.L.E. Price	$380.00
Sug. Retail	$495.00
Ship.Wt.	24 lbs.

The model 8510A is a compact desk–top dot matrix parallel impact printer used for data communication terminals, hardcopy of CRT displays, peripheral terminals for minicomputers and microcomputers and small–sized business systems. This light–weight, high quality printer provides bit image graphics, graphic symbols and can print in six different languages with low power consumption. The character format has a dot matrix of 7(H)x9(V), or 8(H)x8(V). Print speed is 120 characters/second. Up to 80 characters can be printed per line 10 CPl.

PROWRITER PRINTER RIBBONS

Product Code	HPRC
A.P.P.L.E. Price	$4.95
Sug. Retail	$4.95
Ship.Wt.	3 oz.

REPEATERRRR

Product Code	HRPT
A.P.P.L.E. Price	$25.00
Sug. Retail	$29.95
Ship.Wt.	5 oz.

Install this handy circuit board between the keyboard and the encoder board to obtain "repeat on any key held down." If repeat key is depressed, repeat speed increases. Includes a very nice shift key modification kit. Requires the two piece keyboard.
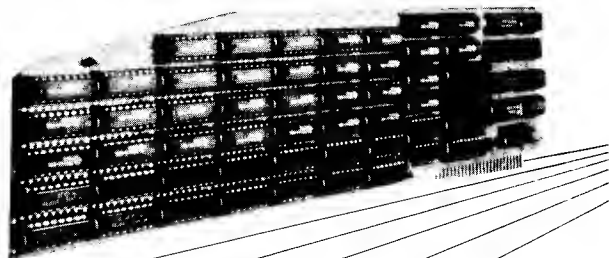
Hardware

RIGHT NOTCH

Product Code	HRIGNO
A.P.P.L.E. Price	$15.00
Sug. Retail	$19.95
Ship.Wt.	2 oz.

A handy tool that will double your disk storage capabilities. One bite from "Right Notch" and a sharp, clean square notch is positioned in just the right place allowing you to use the reverse side of the disk for your storage needs.

SOLID STATE DISK FLASH CARD

Slowed by your floppy drive? Save time and be more productive with this quick, low priced solid state disk emulator. Using RAM memory, this board plugs into any slot (except 0) and pretends to be a very fast floppy drive. Available as a single drive (144 K) or double (288 K); the double drive can be formatted as a single large DOS, Pascal or CP/M volume. Relatively low power consumption lets you use multiple solid state drives. Any disk with standard DOS can be copied into the SSD memory. Price includes one plug-in RAM memory disk emulator board, detailed instructions, diskette with program to automatically copy disks into "disk memory" and operating software for either DOS, CP/M or Pascal. One disk only comes with system. Please specify. (Requires an Apple II/IIe, disk drive, DOS 3.3)

Upgrade for the 144 K SSD is also available and contains step-by-step instructions to update your 144 K SSD to a full 288 K. Kit includes memory chips and instructions. (Original warranty is maintained). **All operating system disks come with Flashcard. CP/M disk supports MicroSoft Z80 card only.**

144K SINGLE DRIVE

Product Code	HSSS
A.P.P.L.E. Price	$345.00
Sug. Retail	$395.00
Ship.Wt.	2 lbs.

144K UPGRADE KIT

Product Code	HSSU
A.P.P.L.E. Price	$200.00
Sug. Retail	N/A
Ship.Wt.	2 oz.

288K DOUBLE DRIVE

Product Code	HSSD
A.P.P.L.E. Price	$525.00
Sug. Retail	$595.00
Ship.Wt.	2 lbs.

SUP'R MOD

Product Code	HSUPMO
A.P.P.L.E. Price	$60.00
Sug. Retail	$69.95
Ship.Wt.	2 lbs.

The SUP'R MOD is a wide band interface system which converts your home TV into a full video display for a personal computer, CCTV camera, or any system which accepts NTSC compatible composite video. SUP'R MOD is pretuned to channel 3 or 4 and ensures safe isolation and high performance with either a black-and-white or color TV. FCC approved, externally powered (no drain on computer's power supply), is easily connected and comes with a one-year warranty from the manufacturer.

SUPER FAN II

Product Code	HFAN
A.P.P.L.E. Price	$79.00
Sug. Retail	$89.95
Ship.Wt.	3 lbs.

Zener-Ray transient voltage suppressor and power filter squelches spikes up to 6000 Amps (even those caused by lightning) while responding up to 100 times faster than the Apple built-in filter. Removes air at 17 cubic feet per minute. Unit has lighted switch in front, two accessory plugs in rear and clips to Apple II, IIe or monitor stand. The convenience and the efficient temperature stabilization will make your Apple last longer.

TALLY 160L RIBBON

Product Code	HTRC
A.P.P.L.E. Price	$12.50
Sug. Retail	N/A
Ship.Wt.	7 oz.

TALLY 180L RIBBON

Product Code	HTRI
A.P.P.L.E. Price	$17.00
Sug. Retail	N/A
Ship.Wt.	1 lb.

THE ULTRATERM

Product Code	HULTRA
A.P.P.L.E. Price	$249.00
Sug. Retail	$379.00
Ship.Wt.	2 lbs.

The UltraTerm delivers a high-quality 8 x 12 dot matrix character set with stable, flicker-free display that guarantees easy readability. Nine software selectable video display formats allow as many as 4096 characters to be displayed. The UltraTerm modes are: 40 col x 24 lines, 80 x 24, 80 x 48, 80 x 32 (interlace), 96 x 24, 128 x 32, 132 x 24 (interlace) and 160 x 24. Software selectable display attributes include: bright/dim; standard alternate character sets; normal/inverse. Interlace mode (512 scan lines) requires a monitor with high persistence phosphor, such as the Apple III or Amdek 300 monitor. (Not recommended for use with the Gorilla monitor.)

Hardware

Ⓐ Ⓐ VERSACARD

Product Code	HVRC
A.P.P.L.E. Price	$150.00
Sug. Retail	$199.00
Ship. Wt.	2 lbs.

Four of the most popular Apple peripheral functions on one card! Provides (1) 6850 ACIA Serial interface, (2) Eight–bit Parallel port, (3) Real–time Calendar/Clock, and (4) BSR Control interface. On–Board EPROM includes a terminal program. The VersaCard is fully compatible with Apple Pascal, CP/M, and BASIC, and no special disks or modifications are needed! Includes documentation and warranty card. (Note: connecting cables and ultrasonic Home Controller, and Graphitti Graphics Chips control are not included, but available separately.)

VERSACARD WITH PARALLEL PRINTER CABLE (6' long)

Product Code	HVRC1
A.P.P.L.E. Price	$160.00
Sug. Retail	N/A
Ship. Wt.	2 lbs.

VERSACARD WITH SERIAL CABLE (6' long)

Product Code	*
A.P.P.L.E. Price	$160.00
Sug. Retail	N/A
Ship. Wt.	2 lbs.

* Male   HVRC2M
* Female   HVRC2F

VERSACARD WITH SERIAL CABLE (1' long)

Product Code	*
A.P.P.L.E. Price	$160.00
Sug. Retail	N/A
Ship. Wt.	2 lbs.

* Male   HVRC3M
* Female   HVRC3F

VERSACARD ROM

Product Code	*
A.P.P.L.E. Price	$30.00
Sug. Retail	N/A
Ship. Wt.	3 oz.

*Please specify printer type by selecting appropriate Product Code.

HVPREP   Epson, Panasonic
HVPRCI   C.Itoh
HVPRID   IDS
HVPROK   Okidata, Prowriter, NEC
HVPRAP   Apple Dot Matrix

CABLES ONLY

VERSACARD PARALLEL CABLE (6' long)

Product Code	HVPC
A.P.P.L.E. Price	$20.00
Sug. Retail	N/A
Ship. Wt.	4 oz.

VERSACARD SERIAL CABLE (6' long)

Product Code	*
A.P.P.L.E. Price	$20.00
Sug. Retail	N/A
Ship. Wt.	4 oz.

* Male   HVSLM
* Female   HVSLF

VERSACARD SERIAL CABLE (1' long)

Product Code	*
A.P.P.L.E. Price	$20.00
Sug. Retail	N/A
Ship. Wt.	2 oz.

* Male   HVSSM
* Female   HVSSF

Ⓐ Ⓐ VIEWMASTER 80 COLUMN CARD

Product Code	HVIE80
A.P.P.L.E. Price	$149.00
Sug. Retail	$169.00
Ship. Wt.	2 lbs.

A total Videx Videoterm compatible 80–Column card. Features 80 characters by 24 lines with a sharp 7 x 9 dot matrix. An on–board 40/80 soft video switch with manual 40 column override. Fully compatible with all Apple languages and software (some may require pre–boot disk). Board features low power consumption through the use of CMOS devices and all connections on the card are made with standard video connectors, no cables soldered to the board. **Not Videx preboot compatible.** *Limited availability.*

Ⓐ Ⓐ TRANSTAR 120 LETTER QUALITY PRINTER

Product Code	HTR120
A.P.P.L.E. Price	$559.00
Sug. Retail	$599.00
Ship. Wt.	23 lbs.

A 19 pound, transportable, parallel letter quality printer that generates superior print quality and is the size of a briefcase. The Transtar 120 offers 14 characters per second (CPS) in Shannon text speed producing super-script, subscript, underlining and bold face. This printer also offers automatic single sheet loading and carries a 1.75K buffer. Requires parallel interface.

Ⓐ Ⓐ ULTRA ROM BOARD/ EDITOR, APB-102

Product Code	HURB
A.P.P.L.E. Price	$149.00
Sug. Retail	$189.00
Ship. Wt.	2 lbs.

Global Program Line Editor and Ampersand command utilities in EPROM. Ampersand commands include If, Then, Else and Print Using. Ultra Rom board is a slot independent ROM board with 8 sockets, each accommodating a 2716 or 2732 EPROM, interchangeable with no modifications. Each 2716 or 1/2 2732 is over–laid into the 2K I/O memory space from $C800 to $CFFF. On–board firmware controls bank switching and facilitates jumps and calls between banks. Thus, up to 32 K or resident ROM space is provided, that does not impinge on the main board or language card memory space. The firmware automatically turns the board off after access and can co–exist with any other I/O board that follows Apple convention. For special applications the resident firmware is also changeable by the user. Works on Apple II + and IIe.

Ⓐ ZARDAX KEYBOARD CONNECTOR

Product Code	HZARKY
A.P.P.L.E. Price	$7.00
Sug. Retail	$8.00
Ship. Wt.	5 oz.

The Zardax keyboard connector is required for use of Apple II + computers with Zardax. The connector comes with straightforward installation instructions, no soldering required. Does not interfere with game paddle controls.

Publications

ANTHOLOGY VOLUMES

Product Code	•
A.P.P.L.E. Price	$12.50
Sug. Retail	N/A
Ship.Wt.	1 oz. each

Each disk contains the all the programs found between the pages of Call –A.P.P.L.E. magazine for a six month period, unless otherwise indicated (see below). Great way to obtain terrific programs and utilities without the bother and worry of typing them in correctly. Consult the individual issues or Peeking Compendiums for program documentation as these disks are not stand–alones.

VOL 1 (Jan – Jun '79)(SA1)
VOL 2 (Jul – Dec '79)(SA2)
VOL 3 (Jan – Jun '80)(SA3)
VOL 4 (Jul – Dec '80)(SA4)
VOL 5 (Jan – Jun '81)(SA5)
VOL 6 (Jul – Dec '81)(SA6)
VOL 7 (Jan – Jun '82)(SA7)
VOL 8 (Jul – Dec '82)(SA8)
VOL 9a (Jan – Mar '83)(SA9A)
VOL 9b (Apr – Jun '83)(SA9B)
VOL 10a (Jul – Sep '83)(SA10A)
VOL 10b (Oct – Dec '83)(SA10B)
VOL 11a (Jan – Mar '84)(SA11A)
VOL 11b (Apr – Jun '84)(SA11B)
PASCAL 81 (Jan – Dec '81)(SPA1)

ASSEMBLY LINES: THE BOOK

Product Code	PASL
A.P.P.L.E. Price	$17.00
Sug. Retail	$19.95
Ship.Wt.	1 lbs.

After reading to page 100 you may even surprise yourself as to how easy machine–language programming really is. Written by Roger Wagner, author of a monthly column in Softalk Magazine, this book approaches 6502 machine language programming from a different perspective and rewards the reader with short, simple, and achievable lessons that build upon his or her knowledge of machine language. Perfect companion to our BIG MAC Macro Editor/Assembler.

Call –A.P.P.L.E. IN DEPTH

Diskettes containing all programs published in Call –A.P.P.L.E. In Depth are also available.

VOL 1, "ALL ABOUT APPLESOFT"

Product Code	PID1
A.P.P.L.E. Price	$7.00
Sug. Retail	$7.50
Ship.Wt.	1 lb.

Comprehensive and detailed tour through the Applesoft language – from the construction of BASIC, variables, high resolution graphics subroutines to extending the language with Ampersand functions. Publication includes many useful application and utility programs designed to promote your understanding of Applesoft and how it can work for you. Recommended for all Apple users, although may be a bit heavy going for beginners. Now in its 2nd Printing!

"ALL ABOUT APPLESOFT" DISKETTE

Product Code	SIN1
A.P.P.L.E. Price	$16.50
Sug. Retail	N/A
Ship.Wt.	1 oz.

VOL 2, "ALL ABOUT PASCAL"

Product Code	PID2
A.P.P.L.E. Price	$11.00
Sug. Retail	$12.50
Ship.Wt.	2 lbs.

Wide range of new and useful programs and "in–depth" articles specializing in the Apple Pascal language. Switch to and from BASIC and the Pascal environment, decode a compiled program, edit your own graphics, format text and programs, research the subject with the expanded and up–to–date bibliography, and more! Almost everything you wanted to know about Apple Pascal but didn't know where to look. Also contains supplemental information for beginners.

"ALL ABOUT PASCAL" DISKETTES

Product Code	SIN2
A.P.P.L.E. Price	$20.00
Sug. Retail	N/A
Ship.Wt.	3 oz.

VOL 3, "ALL ABOUT DOS"

Product Code	PID3
A.P.P.L.E. Price	$13.50
Sug. Retail	$15.00
Ship.Wt.	2 lbs.

"All About DOS" contains 288 pages of DOS tutorials and utility programs. "All About DOS" is a fine addition to your A.P.P.L.E. library.

"ALL ABOUT DOS" DISKETTES

Product Code	SIN3
A.P.P.L.E. Price	$15.00
Sug. Retail	NA
Ship.Wt.	2 oz.

VOL 4, "ALL ABOUT APPLEWRITER IIe"

Product Code	PID4
A.P.P.L.E. Price	$12.50
Sug. Retail	$15.00
Ship.Wt.	1 lbs.

Make Applewriter work for you. A technical treatise on Applewriter IIe. 19 chapters include full descriptions of each facet, annotating each of four work areas, memory management, zero page, entry points, WPL, modifications, etc. Full descriptions of each subroutine, indexed by address. Not for Beginners.

BOUND SET OF Call –A.P.P.L.E. ISSUES

Complete set of the individual issues of our magazine for the indicated calendar year. Each is fully indexed for easy reference and binder punched for easy handling.

1982 CALENDAR YEAR

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A.P.P.L.E. Price	$18.50
Sug. Retail	$36.00
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1983 CALENDAR YEAR

| Product Code	PPK6
A.P.P.L.E. Price	$18.50
Sug. Retail	$36.00
Ship.Wt.	6 lbs.

Publications

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MAPR 84	April 84	$3.00
MMAY 84	May 84	$3.00
MJUN 84	June 84	$3.00

BENEATH APPLE DOS
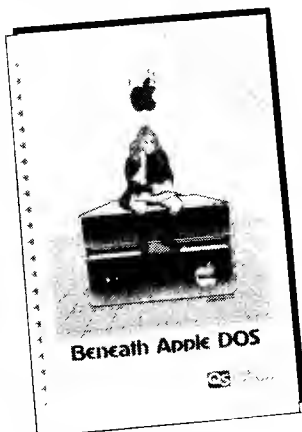
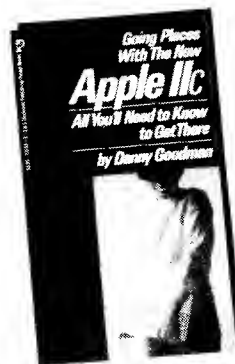| Product Code	PBAD
A.P.P.L.E. Price	$17.00
Sug. Retail	$19.95
Ship.Wt.	1 lbs.

Perfect companion to DiskPak 6B–16 and the Apple DOS manual. Comprehensive book continues where the DOS manual left off and details all versions of the Apple Disk Operating System and how it may be modified OR enhanced to suit your applications. A must for the programmer! **Updated for the IIe.**

COMPUTER PLAYGROUND

Product Code	PPLGRO
A.P.P.L.E. Price	$8.50
Sug. Retail	$9.95
Ship.Wt.	1 lb.

This illustrated workbook is for the child who wants to make the computer "do" something. It contains over 40 activities appealing to children and geared to their level of understanding. This is not a book on "What you can do with your Apple." Rather, it is a book on how to use BASIC with an Apple. Exercises include puzzles, math quizzes and word games. The illustrations throughout the book are suitable for coloring. For children grades 3–7.

GOING PLACES WITH THE APPLE IIc

Product Code	PAPP2C
A.P.P.L.E. Price	$3.25
Sug. Retail	$3.95
Ship.Wt.	7 oz.

This book is recommended reading for the person contemplating the purchase of a personal computer, especially the Apple IIc. Not only is Apple's smallest computer described, but it is also contrasted with its predecessors in the Apple II family, in addition to computers offered by Apple's major competitors. This discussion is factual and reasonably balanced without being overly technical. The book is also a creditable introduction to computer literacy, covering basic terminology as well as the usefulness of the computer for a variety of jobs in the home. Some exemplary programs and applications are discussed in detail (word processing, spreadsheet, databases, telecommunications, entertainment), and the purpose of add–on equipment is discussed. There are even tips for choosing educational software. Overall, this book will be most valuable as a painless introduction rather than a comprehensive buyer's guide.
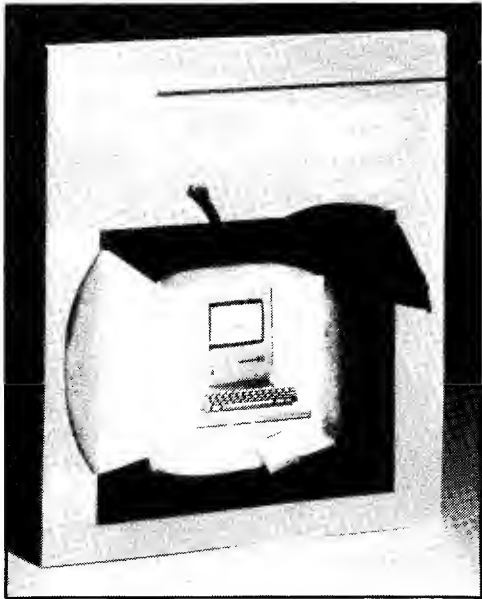
IMAGINATOR SOURCE LISTING

Product Code	PIMAGS
A.P.P.L.E. Price	$30.00
Sug. Retail	N/A
Ship.Wt.	1 lb.

Over 100 pages of commented source listing for 3D program: IMAGINATOR. It lets the user see program logic flow, how graphics were done, and the complete source listing for the true computer hacker.

Publications

INTRODUCING THE APPLE MACINTOSH

Product Code	PMACIN
A.P.P.L.E. Price	$10.50
Sug. Retail	$12.95
Ship.Wt.	1 lb.

This book explains the concepts of the desktop and how to think about the Mac desktop concept to improve your productivity. Whether you have a Mac on hand or are thinking about buying one, this handy guide will serve you well.

PEEKING AT
Call -A.P.P.L.E.

This annual publication collects all the articles of *Call –A.P.P.L.E.* magazine for the given year into one volume. Especially recommended for anyone about to become an Apple owner, future or present member of A.P.P.L.E. Even better when combined with the Anthology Volumes for the corresponding year!

VOL 2, 1979 COMPENDIUM

Product Code	PPK2
A.P.P.L.E. Price	$10.00
Sug. Retail	N/A
Ship.Wt.	1 lbs.

VOL 3, 1980 COMPENDIUM

Product Code	PPK3
A.P.P.L.E. Price	$15.00
Sug. Retail	N/A
Ship.Wt.	2 lbs.

THE APPLE II BASIC HANDBOOK

Product Code	PAPHDB
A.P.P.L.E. Price	$12.95
Sug. Retail	$14.95
Ship.Wt.	1 lb.

This reference book lists and explains the entire Applesoft and Integer BASIC vocabularies. All of the DOS commands are included. Sample programs show what each command does.

MICRO ON THE APPLE
Book Series

MICRO Magazine has been offering software support to Apple users for more than five years. This series presents some of the most outstanding programs and articles that have appeared in MICRO, as well as new material. **Diskette of text included with each book!**

Vol. 1

Product Code	PMA1
A.P.P.L.E. Price	$15.00
Sug. Retail	$24.95
Ship.Wt.	1 lb.

Especially for the beginning–to–intermediate Apple user. Among the capabilities offered are accurate rounding and formatting of numbers, lower–case letters, and punctuation into Applesoft strings. Includes the popular game "Spelunker".

Vol.2

Product Code	PMA2
A.P.P.L.E. Price	$15.00
Sug. Retail	$24.95
Ship.Wt.	1 lb.

For the intermediate–to–advanced user, Vol. 2 provides reference material, advanced machine–language routines, programming techniques, graphics applications, and entertainment.

Vol.3

Product Code	PMA3
A.P.P.L.E. Price	$15.00
Sug. Retail	$24.95
Ship.Wt.	1 lb

Volume 3 tops the series with indispensable aids for programming, impressive graphics programs, I/O enhancements, and more. Some of these programs are being published for the first time.

MICRO ON THE APPLE
(3 Vol. Set)

Product Code	PMAS
A.P.P.L.E. Price	$40.00
Sug. Retail	$59.95
Ship.Wt.	3 lbs.

UNDERSTANDING DBASE II

Product Code	PDBI1
A.P.P.L.E. Price	$19.95
Sug. Retail	$22.95
Ship.Wt.	2 lb.

This book will help you master the basics of data base management using dBase II. Programming techniques are included for such applications as mailing label systems, graphics, bookkeeping, and printing and formating reports. Also, you will learn to interface dBase II with other software systems to expand its capabilities.

Publications

THE APPLE CONNECTION

Product Code	PAPCON
A.P.P.L.E. Price	$12.95
Sug. Retail	$14.95
Ship.Wt.	2 lbs.

This book teaches you to program and connect your Apple to real appliances and devices. It will help you sharpen your BASIC programming skills as you learn elementary interfacing techniques. In particular, you will learn how to use PEEK and POKE instructions in BASIC, Apple I/O slots, transducers and solid–state relays. Also, how to perform digital–to–analog and analog–to–digital conversions, and how to build real applications such as a home security system and a complete temperature monitoring system.

THE APPLE ALMANAC

Product Code	PAPALM
A.P.P.L.E. Price	$17.50
Sug. Retail	$19.95
Ship.Wt.	2 lbs.

This reference volume brings together in one place ASCII charts, opcodes, PEEK and POKE charts plus vital DOS information, graphics chart and algorithms. This is not a general tutorial for beginners, but is better suited for the intermediate to advanced computer user. A list of useful sources for learning about the various aspects of the Apple is included in case you have gaps in your knowledge about your computer.

USING 6502 ASSEMBLY LANGUAGE

Product Code	PU65
A.P.P.L.E. Price	$17.00
Sug. Retail	$19.95
Ship.Wt.	1 lb.

This simple and understandable book "was written with the beginner in mind" and covers not only the theory behind 6502 machine language, but the practical aspects and how they apply to you and your Apple. Contains complete Sweet 16 tutorial, many illustrations, examples, and exercises to advance you from a "beginner" to an "intermediate" assembly language programmer.
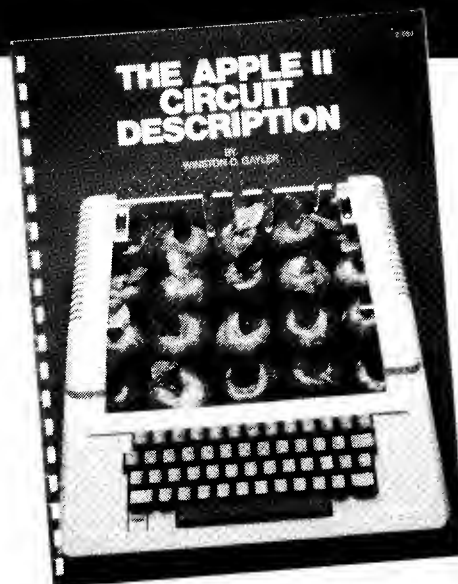
THE APPLE II CIRCUIT DESCRIPTION

Product Code	PACD
A.P.P.L.E. Price	$18.50
Sug. Retail	$21.95
Ship.Wt.	3 lbs.

Includes schematic diagrams redrawn by function. Each function of the Apple is explained in adequate detail. A great book for technicians and those who wish to study a little to better understand Apple operation. Apple II and II+ only.

THE ELEMENTARY APPLE

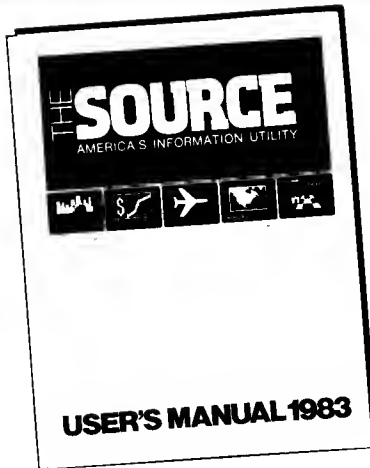| Product Code	PELA
A.P.P.L.E. Price	$11.00
Sug. Retail	$14.95
Ship.Wt.	1 lb.

"This book is intended to help you operate your new Apple II+ computer, get started programming and make life easier with your computer." Excellent teaching and reference work on the Applesoft language presents material in a logical, step–by–step manner that builds on each previous lesson to give a full comprehension of the Apple BASIC language. Illustrated with great cartoons, the book takes you from "Hooking up your Apple" to writing "Your First Program" to adding graphics, disk commands, and other options. Concludes with a valuable "Programs, Hints, and Helps" section. "The Elementary Apple" deserves a place in your computer library next to your Apple computer!

Publications

THE SOURCE

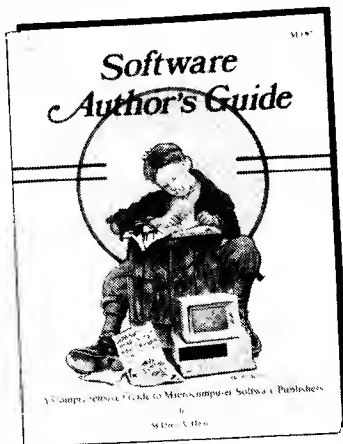| Product Code	FSOU
A.P.P.L.E. Price	$60.00
Sug. Retail	$100.00
Ship.Wt.	2 lbs.

With a computer terminal and modem, you can now access over 800 different online databases of information, electronic mail, access shopping services and chat with other subscribers/members. Numerous other features including access to programs published in *Call –A.P.P.L.E.* Right now, over 700 members are downloading (transferring) programs from The Source directly to their computers without typing them in by hand, keeping up-to-date on our latest products, and ordering Club products via electronic mail. The Source offers a wide variety of services and all connect time charges are billed directly to your credit card. Join the microcomputer telecommunications revolution!

SOFTWARE AUTHOR'S GUIDE

Product Code	PAUTGU
A.P.P.L.E. Price	$17.50
Sug. Retail	$19.95
Ship.Wt.	2 lbs.

This comprehensive guide contains hints from over 300 software companies on how to publish your own software. Compiled from a questionnaire sent to publishers world-wide, this book contains information on where to send material and how to submit it. Useful tips are included, such as "familiarize yourself with the products and style of writing of a certain company before submitting a product for publication. . .look at all competition after conceiving an idea but prior to coding. . .be patient. . .".

III CHEERS! A Quarterly Diskette Magazine

Product Code	SCHEER
A.P.P.L.E. Price	$40.00
Sug. Retail	N/A
Ship.Wt.	4 oz.

A bold new concept in publishing, *III* Cheers brings news, learning, entertainment and technical support to Apple *III* owners through disk-based articles and programs. The magazine supports the Boats™ window-oriented environment, allowing the user to interactively view information on the screen. Alternately, the magazine can be sent to a printer for more traditional reading. Includes two diskettes. Requirements: an Apple *III* or *III* + — screen viewing requires 256K of memory. $40.00 for one year subscription.

$12.50 for a single issue.
Single issue product codes:

SCHE1	Summer 1984
SCHE2	Fall 1984
SCHE3	Winter 1985
SCHE4	Spring 1985

(shipping weight 1 oz. each)

WHAT'S WHERE IN THE APPLE

Product Code	PWWA
A.P.P.L.E. Price	$17.00
Sug. Retail	$19.95
Ship.Wt.	2 lbs.

Atlas and gazetteer of the Apple II memory for the BASIC programmer. Each entry describes a single memory location, given in decimal and hex, and (if applicable) the name of the symbolic label, followed by a brief explanation of the routine which resides there. A definite must for those wanting a PEEK's and POKE's dictionary and with an insatiable appetite for more Apple information. **Updated for the *IIe* and DOS 3.3.**

THE GUIDE

Product Code	PWW2
A.P.P.L.E. Price	$8.00
Sug. Retail	$9.95
Ship.Wt.	1 lb.

Supplement to the original edition of "What's Where In The Apple."

WOZTALKS VIDEO CASSETTE

Product Code	PWTA
A.P.P.L.E. Price	$27.50
Sug. Retail	N/A
Ship.Wt.	1 lbs.

Ninety-minute VHS format video cassette of Apple Computer's Steve Wozniak during the October '81 meeting. "Woz" talks about the early history of the Apple, some of its technical development, and its future. **In limited supply, order now!.**

Apple IIc

MOCKINGBOARD
for the *IIc*

Product Code	HMOB2C
A.P.P.L.E. Price	$165.00
Sug. Retail	$195.00
Ship. Wt.	3 lb.

This is the only peripheral that provides speech, music and sound effects with software support for the *IIc*. It is completely self-contained and has its own onboard stereo speakers.

See Mockingboard description in the Hardware section.

GOING PLACES
WITH THE APPLE *IIc*

Product Code	PAPP2C
A.P.P.L.E. Price	$3.25
Sug. Retail	$3.95
Ship. Wt.	7 oz.

This book is recommended reading for the person contemplating the purchase of a personal computer, especially the Apple *IIc*. Not only is Apple's smallest computer described, but it is also contrasted with its predecessors in the Apple II family, in addition to computers offered by Apple's major competitors. This discussion is factual and reasonably balanced without being overly technical. The book is also a creditable introduction to computer literacy, covering basic terminology as well as the usefulness of the computer for a variety of jobs in the home. Some exemplary programs and applications are discussed in detail (word processing, spreadsheet, databases, telecommunications, entertainment), and the purpose of add-on equipment is discussed. There are even tips for choosing educational software. Overall, this book will be most valuable as a painless introduction rather than a comprehensive buyer's guide.

GRAFMAGIC
By Stuart Cowan

Product Code	SGRAFM
A.P.P.L.E. Price	$12.50
Sug. Retail	N/A
Ship. Wt.	2 oz.

Put pzazz into the graphics of your BASIC programs! Grafmagic gives you a comprehensive set of graphics enhancements (over 70 commands!) easily invoked by name using the Ampersand call. A HIRES character set and font editor are included which are DOS Toolkit compatible. In use, the character size can be varied independently in both the horizontal and vertical dimensions. Thickness of boldfacing is also variable. It even does sub and superscripting. Logo-like turtle commands include ones to tell you the turtle's current location and orientation. Windows may be defined within the HIRES screen and you may expand or shrink either the width or height of the contents, scroll or even rotate the image! This gives you an easy method to take small objects created elsewhere (with the Koala Pad for example), cut them out, and use them in your programs. Such shapes can be used for animation effects without destruction of the background, in equivalent fashion to XDRAW in Applesoft but without the problems of using standard Applesoft shape tables. Tone generation commands are also built in. Requires an Apple with 64K and one disk drive (19 pages of documentation on the disk). *IIc compatible.*

BIG MAC.C

Product Code	SMACC
A.P.P.L.E. Price	$40.00
Sug. Retail	N/A
Ship. Wt.	1 lb.

Powerful, co-resident editor/assembler for which Ted II+ and BIG MAC.LC files are upward-compatible. Easy-to-use program features MACRO capability, fast (2000-3000 lines/minute) conditional assembly, full feature editor, support of all 6502 and the new 65C02 opcodes, Sweet 16 pseudo-opcodes, and all logical and math operations. In addition, you may generate up to three different symbol tables (alpha by label, numerical by address, cross-referenced by line). For development of very large programs, the source code may be assembled directly from disk and the object code itself assembled directly to disk. An extensive well-written manual is included (193 pages). The stand-alone disassembler provided handles 65C02 opcodes and generates compatible source code. Bonuses include a variety of useful assembly language routines, and a clever system to print a labeled and commented disassembly of the Applesoft language. *IIc compatible.*

HIGHER TEXT PLUS

Product Code	SHTP
A.P.P.L.E. Price	$27.50
Sug. Retail	$40.00
Ship. Wt.	4 oz.

Generate upper and lower case text in a variety of typefaces, sizes, and colors from your programs for display on the Apple hi-res screen. Features an easy-to-use editor for generation of your own unique character sets (fonts), several utilities to enhance your creation of hi-res displays, wide range of sample fonts, and full documentation. (Note: this program requires and assumes a full working knowledge either Integer or Applesoft BASIC.) *IIc compatible.*

KOALAPAD
TOUCH TABLET
(for the *IIc*)

Product Code	HKOA2C
A.P.P.L.E. Price	$95.00
Sug. Retail	$124.95
Ship. Wt.	2 lbs.

See description of the KoalaPad Touch Tablet in Hardware Section.

PROZAP
By Gary Charpentier

A new utility of intrinsic ProDOS routines to read, edit and write any ProDOS block or DOS 3.3 sector all from the ProDOS environment. The disk also contains a utility for dump to disk, printer, monitor, a hex or hex/ASCII listing or disassembly with a search routine for hex or ASCII bytes. Complete with documentation for ProZap only, not ProDos. *IIc compatible.*

Apple IIc

MICROWRITER IIe
By William H. Starbuck

Product Code	SMICWT
A.P.P.L.E. Price	$12.50
Sug. Retail	N/A
Ship.Wt.	2 oz.

A semiprofessional screen oriented word processor. Features 40 or 80 column edit modes, an 80 column preview if you edit in 40 columns, full IIe keyboard support, text insert, delete, move and replace, insert segments from disk, and save segments to disk. Generates standard text files. Printer drivers are included for Epson, Tally, Prowriter and Apple DMP. Full instructions are included to generate additional printer drivers. This word processor is easy to use and will satisfy the requirements of 99% of the users. Requires an Apple IIe and one disk drive. Supports additional drives and most likely any printer or 80 column card. **IIc compatible.**

MICRO DRIVE
for the IIc

Product Code	HTDS2C
A.P.P.L.E. Price	$225.00
Sug. Retail	$320.00
Ship.Wt.	5 lbs.

This is a half–high 5¼″ single–sided drive, compatible with most Apple diskettes. (Some highly copy–protected disks will not boot on this drive.) It features quiet operation and an insertion squeeze lever with automatic disk eject. Patches are given for DOS 3.3 40–track operation. Full one year warranty from the manufacturer. **Introductory special--the Verbatim Disk Drive Analyzer is included.**

PROMODEM 1200
for the IIc

Product Code	HPRO2C
A.P.P.L.E. Price	$450.00
Sug. Retail	$495.00
Ship.Wt.	7 lbs.

See description of Promodem 1200 in Hardware Section.

Lisa/Mac

INTRODUCING THE APPLE MACINTOSH

Product Code	PMACIN
A.P.P.L.E. Price	$10.50
Sug. Retail	$12.95
Ship.Wt.	14 oz.

This book explains the concepts of the desktop and how to think about the Mac desktop concept to improve your productivity. Whether you have a Mac on hand or are thinking about buying one, this handy guide will serve you well.

MAGICPHONE

Product Code	HMAGPH
A.P.P.L.E. Price	$180.00
Sug. Retail	$199.95
Ship.Wt.	3 lbs.

MAGICphone™ provides the Macintosh with a whole new spectrum of voice/telephone communications. Software is provided to manage and dial hundreds of phone numbers and will record and print the details (time, number, and charge) of each call. The phone log can be printed on a daily, weekly, or monthly basis. The mouse is used to select and dial any phone number, and MAGICphone uses TONE dialing to any of the lower–cost telephone carriers like SPRINT and MCI. MAGICphone allows control of two separate phone lines by providing a "hold" feature and can temporarily stop incoming calls (the caller will hear a busy signal).

Simply plug the MAGICphone into your Macintosh speaker jack and into your phone line. Can also be used as a stand alone telephone without Mac control.

TRANSYLVANIA

Product Code	STRA
A.P.P.L.E. Price	$25.50
Sug. Retail	$34.96
Ship.Wt.	4 oz.

A hi–res graphic adventure for the Mac. Explore the world of Transylvania and rescue a damsel in distress...but first you must find her. To do so you must travel around, use objects that you find, and solve many puzzles.

LISA QUICKDRAW DEMO DISKETTE
by David Redhed

Product Code	SQDRAW
A.P.P.L.E. Price	$39.50
Sug. Retail	N/A
Ship.Wt.	2 oz.

This diskette has three Pascal Workshop programs demonstrating QuickDraw graphics. Annotated source code is included to illustrate how QuickDraw is accessed through Pascal. Several features similar to the Office System graphics have been implemented through Pascal procedures in a form adaptable to your own programs.

Program #1: Eleven separate aspects of QuickDraw illustrated in a program using mouse–selectable menus.
Program #2: A version of Apple Computer's QDSample with annotated source code.
Program #3: Illustrates the use of multiple grafPorts in QuickDraw. GrafPorts are the basis for all multiple window effects in the Lisa Office System.

The diskette contains a text file with additional information for running the demo programs. Also included are three Exec files to aid you with compilation and linking when you make changes to the source code.

MACPAK

Product Code	HMACPK
A.P.P.L.E. Price	$64.95
Sug. Retail	$79.00
Ship.Wt.	6 lbs.

A carrying case for your Macintosh made of masonite, thick high–density foam, and heavy Cordura® . Contains pockets for accessories, papers and manuals, and room for an extra disk drive and modem. Can be carried by shoulder sling, like a suitcase or by hideaway backpack straps. Burgundy color.

Apple ///

/// CHEERS!
A Quarterly Diskette Magazine

Product Code	SCHEER
A.P.P.L.E. Price	$40.00
Sug. Retail	N/A
Ship.Wt.	4 oz.

A bold new concept in publishing, /// Cheers brings news, learning, entertainment and technical support to Apple /// owners through disk–based articles and programs. The magazine supports the Boats™ window-oriented environment, allowing the user to interactively view information on the screen. Alternately, the magazine can be sent to a printer for more traditional reading. Includes two diskettes. Requirements: an Apple /// or /// + — screen viewing requires 256K of memory. $40.00 for one year subscription.

$12.50 for a single issue.
Single issue product codes:

SCHE1	**Summer 1984**	
SCHE2	**Fall 1984**	(shipping weight
SCHE3	**Winter 1985**	1 oz. each)
SCHE4	**Spring 1985**	

WORD WEAVER ///

Product Code	SWW3
A.P.P.L.E. Price	$35.00
Sug. Retail	N/A
Ship.Wt.	3 oz.

Comprehensive, easy–to–use line-oriented word processor package for the Apple ///. Features text-imbeddable printer control codes, text formatting, global search/edit/replace, easy and logical edit commands, and linking of up to 50 separate files. (Note: requires 128K Apple /// computer and printer). **Close-out item.**

APPLE ///
DISK DRIVE

Product Code	HDR3
A.P.P.L.E. Price	$285.00
Sug. Retail	$379.00
Ship.Wt.	6 lbs.

Model A3 by MicroSci (carries same warranty as AP DRIVE).

Apple //e

MICROWRITER //e
By William H. Starbuck

Product Code	SMICWT
A.P.P.L.E. Price	$12.50
Sug. Retail	N/A
Ship.Wt.	2 oz.

A semiprofessional screen oriented word processor. Features 40 or 80 column edit modes, an 80 column preview if you edit in 40 columns, full //e keyboard support, text insert, delete, move and replace, insert segments from disk, and save segments to disk. Generates standard text files. Printer drivers are included for Epson, Tally, Prowriter and Apple DMP. Full instructions are included to generate additional printer drivers. This word processor is easy to use and will satisfy the requirements of 99% of the users. Requires an Apple //e and one disk drive. Supports additional drives and most likely any printer or 80 column card. **//c compatible.**

APPLE //e
80 COLUMN, EXTENDED RAM BOARD

Product Code	H80C
A.P.P.L.E. Price	$120.00
Sug. Retail	$169.00
Ship.Wt.	8 oz.

Quality board made especially for A.P.P.L.E. For the Apple //e ONLY. RAM board contains 64K of memory and uses standard Apple Protocol.

POWER SUPPLY

Product Code	HPOWSU
A.P.P.L.E. Price	$85.00
Sug. Retail	$129.00
Ship.Wt.	2 lb. 4 oz.

Does your Apple click and pop or come on slowly when you turn on the power switch? If so, you may need the A. P. P. L. E. replacement power supply. This power supply is compatible with the Apple II/II + ///e. It has a high capacity with 5 amps at 5V and 2 amps at 12V. A switch between 110/220 is built in and included is a 6ft power cord and power on light. 90–day warranty. This is a NEW (not rebuilt) unit.

MACH III JOYSTICK
(For the //e)

Product Code	HJOMA3
A.P.P.L.E. Price	$49.00
Sug. Retail	$59.95
Ship.Wt.	1 lb.

This is the same joystick as the MACH III except that it is specially designed to fit the //e socket.

MICRO DRIVE

Product Code	HTDSDR
A.P.P.L.E. Price	$210.00
Sug. Retail	$280.00
Ship.Wt.	5 lbs.

This is a half–high 5¼″ single–sided drive, compatible with most Apple diskettes. (Some highly copy–protected disks will not boot on this drive.) It features quiet operation and an insertion squeeze lever with automatic disk eject. Patches are given for DOS 3.3 40–track operation. Full one year warranty from the manufacturer. **Introductory special — the Verbatim Disk Drive Analyzer is included.** Can be used with II,II + ,//e.

MULTIMODEM //e
TELECOMPUTING SYSTEM

Product Code	HMOD2E
A.P.P.L.E. Price	$275.00
Sug. Retail	$329.00
Ship.Wt.	3 lbs.

A 300 baud intelligent plug–in modem card *and* MultiCom II communications software. Serial interface card not required. Includes automatic dialing, automatic answering, busy number redialing, and phone number storage. Dial from your Apple keyboard. A speaker allows you to monitor the progress of your call. Plug in your telephone and use the same line for talking. Compatible with Apple II,II + ,//e.

WORDSTAR ⓘⓔ

WordStar is designed to be simple to learn for users with no computer experience, yet it contains more powerful capabilities than many stand–alone word processing systems. Features include a wide range of formatting and printing options, on screen help menus, newly revised documentation and training materials, and the ability to show on screen, while a document is being edited, exactly how the text will appear when printed. Word Star is a reliable product with over one million copies now in circulation.

WordStar for the Apple requires a CP/M card, 64K memory, and a shift modification device. The MicroPro StarCard (available with Word Star) includes 64K, the shift modification device, and 70 column capability.

WORDSTAR or INFOSTAR *plus* STARCARD

Product Code	*
A.P.P.L.E. Price	$325.00
Sug. Retail	$495.00
Ship.Wt.	6 lbs.

A new package offering you a choice of either Word-Star or InfoStar *plus* the StarCard. The StarCard has 64K RAM, uses CP/M Operating System 2.2, has a Shift Modification Device and has 40–255 column horizontal scroll capability.

* WordStar   SPWORD
  InfoStar   SPINFO

THE WORDSTAR PROFESSIONAL ⓘⓔ

Product Code	SPWSPR
A.P.P.L.E. Price	$450.00
Sug. Retail	$695.00
Ship.Wt.	9 lbs.

Combines WordStar with its options: MailMerge, SpellStar, and StarIndex in a two binder set. It provides all the tools needed for professional word processing at an attractive price. Includes StarCard.

PROFESSIONAL OPTIONS PACK

Product Code	SPWSOP
A.P.P.L.E. Price	$195.00
Sug. Retail	$345.00
Ship.Wt.	3 lbs.

Designed for the WordStar user, the Options Pack includes MailMerge, SpellStar and StarIndex at a cost that is substantially less than the cost if ordered separately.

DATASTAR

Product Code	SDATST
A.P.P.L.E. Price	$175.00
Sug. Retail	$295.00
Ship.Wt.	5 lbs.

DataStar is a comprehensive database program. This program includes help screens, extra help messages, and on–screen prompts. In addition, DataStar protects against incorrect entries, provides accurate calculations of up to 14 digits, and will gather information from separate reference files. Requires CP/M card.

INFOSTAR

Product Code	SINFST
A.P.P.L.E. Price	$295.00
Sug. Retail	$395.00
Ship.Wt.	8 lbs.

Info Star is an extremely powerful, yet easy–to–use, data–base management system. Four levels of help menus guide the user through each step of data entry form design, sorting and report generation. Transaction processing and automatic updating enable the user to easily update records across file boundaries. InfoStar provides up to nine control breaks, arithmetic calculations within the report, and allows the user to incorporate data from multiple files. Print enhancement features include bold facing and underlining of selected data fields. InfoStar for the Apple requires a CP/M card and and 48K of memory.

MAILMERGE ⓘⓔ

Product Code	SMAILM
A.P.P.L.E. Price	$175.00
Sug. Retail	$195.00
Ship. Wt.	3 lb.

MailMerge is a versatile file merging tool that works with WordStar. It is commonly used to generate personalized form letters, invoices, and mailing labels. "If . . . then . . ." statements can be used to select data records. MailMerge also eliminates repetitious typing of often used paragraphs with its "file insert" capability, and it allows for chain printing of documents, such as chapters in a book. Requires CP/M card.

REPORTSTAR ⓘⓔ

Product Code	SREPST
A.P.P.L.E. Price	$205.00
Sug. Retail	$350.00
Ship.Wt.	6 lbs.

ReportStar is a report generator program, with the ability to create a simple list of information or a complex, sophisticated report, depending on your need. Seven major features include quick report, report format editing, a print enhancement package, field totaling, transaction processing, form sorting, and the ability to write reports to disk. Requires CP/M card.

CALCSTAR ⓘⓔ

Product Code	SCALST
A.P.P.L.E. Price	$115.00
Sug. Retail	$195.00
Ship.Wt.	2 lb.

CalcStar is an advanced electronic spreadsheet program with features including variable column widths, decimal precision, logarithms, exponents and linear regression. Compatible with WordStar, the user has available boldface, underlining and other features. Requires CP/M card.

SPELLSTAR ⓘⓔ

Product Code	SSPEST
A.P.P.L.E. Price	$147.00
Sug. Retail	$195.00
Ship.Wt.	2 lbs.

SpellStar is a spelling checker that works with WordStar to find spelling and typing errors. SpellStar scans documents, comparing the words in the document with the words in its 20,000 word dictionary. Errors are highlighted in context and the user has the choice of fixing the word, adding it to the supplemental dictionary, bypassing the word, or ignoring it throughout the document. Requires CP/M card.

STARINDEX ⓘⓔ

Product Code	SSTIND
A.P.P.L.E. Price	$115.00
Sug. Retail	$195.00
Ship.Wt.	2 lbs.

StarIndex allows the user to create text reference aids such as an alphabetized index with subentries, a table of contents with up to four levels of emphasis, a list of figures and tables, and an outline – all in the user's personal style. Requires CP/M card.

SUPERSORT ⓘⓔ

Product Code	SSUPSO
A.P.P.L.E. Price	$147.00
Sug. Retail	$250.00
Ship.Wt.	3 lbs.

SuperSort is a flexible and extremely fast utility for sorting, merging and selecting information from data files. It allows a wide variety of user–specified criteria during the sort/merge process. SuperSort works with ASCII, BCD, and binary data and can be used to change variable length record files into fixed length record files. Requires CP/M card.

Accessories

BULK BLANK DISKETTES (Brand Name Boxed)

Product Code	HGEN10
A.P.P.L.E. Price	$19.00
Sug. Retail	N/A
Ship.Wt.	8 oz.

Quality blank diskettes are 5¼" single–sided double–density with mylar hub ring for more durability and longer disk life. Box of 10.

Order 10 boxes for $150.00!

VERBATIM DATALIFE

Product Code	HVEB
A.P.P.L.E. Price	$25.00
Sug. Retail	$39.95
Ship.Wt.	1 lb.

Double–density with Verbatim labels, jackets, and write–protects. Box of 10.

BASF 3.5" MICRO FLEXYDISK

Product Code	HBASF
A.P.P.L.E. Price	$22.50
Sug. Retail	$29.75
Ship.Wt.	7 oz.

Single–sided 3.5" micro–floppy disk with a **lifetime guarantee**. Box of 5.

MEMOREX 3.5" MICRO-FLOPPY DISK

Product Code	HDMEMO
A.P.P.L.E. Price	$44.00
Sug. Retail	$59.00
Ship.Wt.	1 lb.

Single–sided 3.5" micro–floppy disk. Box of 10.

MACPAK

Product Code	HMACPK
A.P.P.L.E. Price	$64.95
Sug. Retail	$79.00
Ship.Wt.	6 lbs.

A carrying case for your Macintosh made of masonite, thick high–density foam, and heavy Cordura® . Contains pockets for accessories, papers and manuals, and room for an extra disk drive and modem. Can be carried by shoulder sling, like a suitcase or by hideaway backpack straps. Burgundy color.

PRINTPAK

Product Code	HPRPAK
A.P.P.L.E. Price	$34.00
Sug. Retail	$34.95
Ship.Wt.	3 lbs.

A soft case for the Imagewriter® printer made of high density–foam and Cordura® . Can be carried by shoulder sling, like a suitcase or attached to the MacPak while carried as a backpack. Burgundy color.

SOFTCASE

Product Code	HSOFTC
A.P.P.L.E. Price	$39.00
Sug. Retail	N/A
Ship.Wt.	3 lbs.

This soft cover, light, durable carrying case makes transporting your Apple and two disk drives easy and SAFE. Three eighths inch padding protects your entire Apple from bumps and bruises with extra padding around corners and keyboard. The SoftCase is made of attractive, light brown simulated leather and features two counter–zip zippers, a strong carrying handle plus a durable shoulder strap. SoftCase also offers pockets inside for diskettes, manuals and two large exterior zip pockets hold and protect your disk drives atop your Apple. Great for taking your Apple to Grandma's house.

DISK BANKS

Product Code	HDBA
A.P.P.L.E. Price	$4.50
Sug. Retail	$9.95
Ship.Wt.	1 lb.

Store and protect your valuable diskettes in this unique and versatile disk filing system. Each "bank" holds up to 10 diskettes and features an adjustable slide–out drawer, convenient interlocking grooves on sides & top for stacking and expansion, and sturdy, safe storage of your magnetic media.

Accessories

FLIPSORT

Product Code	HFLS
A.P.P.L.E. Price	$22.50
Sug. Retail	$29.95
Ship.Wt.	3 lbs.

Attractive, functional disk storage system with capacity for 75 5¼" diskettes. Contains molded index with dividers. Cover protects disks from dust contamination. Comes in a smoke color with front carrying handle.

TYPING AID

Product Code	HPAG
A.P.P.L.E. Price	$13.00
Sug. Retail	$19.95
Ship.Wt.	2 lbs.

Plastic stand which is a must for any programmer who spends a lot of time entering program listings or information from various sources. The "Typing Aid" has an adjustable stand to hold publications or listings of any size and is engraved with the *Call — A.P.P.L.E.* logo.

Call — A.P.P.L.E.
POSTER
February '84 Cover

Product Code	HPOST2
A.P.P.L.E. Price	$9.95
Sug. Retail	N/A
Ship.Wt.	2 oz.

The "Apple tree" *Call — A.P.P.L.E.* cover from February '84 has indeed become a classic. Produced in lavish four–color, this poster measures 20 x 25, and is a handsome addition to home, office, or computer area. Suitable for framing.

A.P.P.L.E.
T-SHIRT

Product Code	*
A.P.P.L.E. Price	$10.95
Sug. Retail	N/A
Ship.Wt.	8 oz.

Proclaim your pride in the wold's largest Apple user group. Just in time for summer. Silkscreened in four–color, A.P.P.L.E. T–shirts make great gifts for friends. Sizes S, M, L, XL.
* Please specify size by choosing the appropriate Product Code.

S	HTSHS
M	HTSHM
L	HTSHL
XL	HTSHX

THE SOURCE

Product Code	FSOU
A.P.P.L.E. Price	$60.00
Sug. Retail	$100.00
Ship.Wt.	2 lbs.

With a computer terminal and modem, you can now access over 800 different online databases of information, electronic mail, access shopping services and chat with other subscribers/members. Numerous other features including access to programs published in *Call–A.P.P.L.E.* Right now, over 700 members are downloading (transferring) programs from The Source directly to their computers without typing them in by hand, keeping up–to–date on our latest products, and ordering Club products via electronic mail. The Source offers a wide variety of services and all connect time charges are billed directly to your credit card. Join the microcomputer telecommunications revolution!

Information

All A.P.P.L.E. hardware, software, and publications are available for purchase by **MEMBERS ONLY**.

MEMBERSHIP PRICE:

$25.00 one time application fee (non–refundable)

Product Code	FAPP
A.P.P.L.E. Price	$25.00

$26.00 1st years dues

Product Code	FREN26
A.P.P.L.E. Price	$26.00

$51.00 Total for 1st year

One year subscription to *Call –A.P.P.L.E.* magazine only. **$21.00.**

Product Code	FSUB21
A.P.P.L.E. Price	$21.00
Sug. Retail	$36.00

New memberships, renewals, and orders MUST BE PREPAID by check, MO, Bank Draft drawn on a US Bank in US funds, or by Visa or MasterCard credit card number and expiration date. Normal order turnaround time is 10 to 15 business days and shipped in the order received. However, some items may have to be back–ordered and these items will be shipped as soon as we have the item in stock. To speed up the time it takes to process an order, **be sure to include:**

- Product alpha numeric code
- Product Name (exactly as appears in catalog)
- Membership Number & Expiration
- Full membership name
- Full street address
- Phone number where we can reach you by day, if questions arise
- Payment

Shipping costs are included in A.P.P.L.E. product Orders in the United States, except Alaska and Hawaii. As these shipments are sent by United Parcel Service, they require a street address (no post office boxes). Due to shipping regulations, we must have a UPS shipping address for all orders over 8 oz. As of March 1, 1984, we will be charging for additional shipping costs incurred if no UPS address is included. (A.P.P.L.E. pays up to the UPS rate on these orders. If 1st class mail or a speedier service is required, please see the accompanying charts.) APO/FPO is considered domestic mail and does not require extra postage/shipping charge. Canadian, and all foreign members must include extra monies for additional shipping/handling costs via Air Parcel Post (see chart). There is a $3.00 handling charge on all orders under $25.00.

Product Code	FHDLCH
A.P.P.L.E.Price	$3.00

Note: Documentation and program disks are not sold separately.

DUE TO EXPORT LICENSE REQUIREMENTS, WE ARE NOT ALLOWED TO SHIP HARDWARE TO FOREIGN MEMBERS.

TO PLACE ORDERS BY PHONE:
Call our new **TOLL FREE NUMBER: 1-800-426-3667 FOR A.P.P.L.E. ORDERS ONLY!** For information and order check, call our regular number (206 -872 – 2245) between the hours of 9am and 4pm, Pacific time, Monday through Friday and ask for the Customer Service Desk. Be sure to have the information requested above ready.

BY SOURCE:
Send your order, all credit card information, member number and expiration date via Source mail to our system account ST1570 and we'll take it from there!

BY MAIL:
Please print your order (include member number & expiration) LEGIBLY, enclose with your check, money order, draft, or credit card number and expiration. Mail to our address: **21246 68th Ave S. Kent, WA. 98032.**

If you adhere to the above instructions, we will be able to provide rapid and reliable service! If you aren't sure of your member number and expiration date, simply look on your mailing label, just above your name – the first five digits are your personal member number and the last five characters indicate when your membership expires – please save us postage and mail your renewal in early. If you move, please notify us as soon as you can of your new address so we can change our records and you won't miss

a single issue of Call –A.P.P.L.E. magazine. Renewal checks not received by the 1st of the month preceding your expiration month will cause you to miss the regular issue of *Call – A.P.P.L.E.* Allow six weeks for correction/changes of address. Unfortunately, we cannot supply missing issues of *Call – A.P.P.L.E.* if we don't receive a timely change of address notice. **Please use Product Code when ordering.**

EXPRESS SERVICE

Product Code	FSPSVC
A.P.P.L.E.Price	$25.00

Need your programs or hardware yesterday? A.P.P.L.E. is instituting a speed service to expedite your order. For a $25.00 special handling fee (**FSPSVC**) and the cost of UPS Blue Label (see enclosed charts), your order is individually handled and shipped out for rapid turn–around.

MEMBERSHIP CARDS

Product Code	FMCU
A.P.P.L.E.Price	$5.00

Lost or misplaced cards are reissued for $5.00.

REPLACEMENT/ REFUND POLICY
Should you receive defective software, hardware or publication, call (206) 872–2245 and request an authorization to return the product.

ALL RETURNS MUST HAVE AN AUTHORIZATION NUMBER.

If authorization is approved, you will be given an "authorization number." Authorized products should be returned with your original invoice and authorization number. This must be done within 15 days of invoice date if you wish credit/replacement or refund.

We offer the lowest prices possible to our members. The information in this publication is accurate to the best of our knowledge. However, we are not responsible for errors in printing or omissions. Prices can change at any time. We cannot provide refunds when prices are lowered just after your purchase. **New prices are not retroactive.**

Due to our low prices we request that you do not ask for a refund for an amount less than $100.00. Credit, exchanges gladly accepted.

Note: On products containing Warranty Registration Cards, do not mail the card until you decide to keep the product. If you decide not to keep the product, you must return the Warranty Registration Card with the merchandise.

RENEWAL POLICY
The annual membership fee (**FREN26**) is $26.00. We do not issue a new membership card. Please use the renewal sticker found on all renewal forms sent out. There is no late fee. Renewals received "late" will be assigned the expiration date coinciding with the next magazine issue.

POLICY FOR LATE MAGAZINES
We will replace missing issues within your membership period if all of the following conditions are met:
1) All address information on file at the time of missing issue is current and correct.
2) The magazine subsequent to missing issue is received.

MICROWRITER IIe
By William H. Starbuck

Product Code	SM1CWT
A.P.P.L.E. Price	$12.50
Sug. Retail	N/A
Ship.Wt.	2 oz.

A semiprofessional screen oriented word processor. Features 40 or 80 column edit modes, an 80 column preview if you edit in 40 columns, full IIe keyboard support, text insert, delete, move and replace, insert segments from disk, and save segments to disk. Generates standard text files. Printer drivers are included for Epson, Tally, Prowriter and Apple DMP. Full instructions are included to generate additional printer drivers. This word processor is easy to use and will satisfy the requirements of 99% of the users. Requires an Apple IIe and one disk drive. Supports additional drives and most likely any printer or 80 column card. IIc compatible.

FARWORD
By John Shanks and Fred Lautzenhiser

Product Code	SFARWO
A.P.P.L.E. Price	$12.50
Sug. Retail	N/A
Ship.Wt.	2 oz.

A high quality line oriented word processor. Features 40 column editing with 80 column preview. Text is easily edited, inserted, moved or deleted using the same command structure as Big Mac. Any portion of the text can be saved to disk and disk files can be easily inserted. Lines can be alphabetized. Formatting capability is exceptional, any function of your printer can be utilized. A line editor is especially useful for writing outlines, lists of data, fact sheets or any situation where text manipulation is needed. Requires a 64K Apple with Applesoft and one disk drive. An 80 column card, additional disk drive, lower case chip and shift key modification are desirable.

WORD WEAVER III

Product Code	SWW3
A.P.P.L.E. Price	$35.00
Sug. Retail	N/A
Ship.Wt.	3 oz.

Comprehensive, easy–to–use line–oriented word processor package for the Apple III. Features text–imbeddable printer control codes, text formatting, global search/edit/replace, easy and logical edit commands, and linking of up to 50 separate files. (Note: requires 128K Apple III computer and printer). **Close-out item.**

THE WORDSTAR PROFESSIONAL

Product Code	SPWSPR
A.P.P.L.E. Price	$450.00
Sug. Retail	$695.00
Ship.Wt.	9 lbs.

Combines WordStar with its options: MailMerge, SpellStar, and StarIndex in a two binder set. It provides all the tools needed for professional word processing at an attractive price. Includes StarCard.

PROFESSIONAL OPTIONS PACK

Product Code	SPWSOP
A.P.P.L.E. Price	$195.00
Sug. Retail	$345.00
Ship.Wt.	3 lbs.

Designed for the WordStar user, the Options Pack includes MailMerge, SpellStar and StarIndex at a cost that is substantially less than the cost if ordered separately.

WORDSTAR or INFOSTAR plus STARCARD

Product Code	*
A.P.P.L.E. Price	$325.00
Sug. Retail	$495.00
Ship.Wt.	8 lbs.

A new package offering you a choice of either WordStar or InfoStar *plus* the StarCard. The StarCard has 64K RAM, uses CP/M Operating System 2.2, has a Shift Modification Device and has 40–255 column horizontal scroll capability.

*WordStar   SPWORD
 InfoStar   SPINFO

ZARDAX

Product Code	*
A.P.P.L.E. Price	$160.00
Sug. Retail	$210.00
Ship.Wt.	2 lbs.

Professional–quality word processing easy enough for the beginner to use. Menus for disk and document handling. Editing commands are easy to remember. A Glossary feature allows you to define phrases used repeatedly which you may recall with only two keystrokes. Mail merge is included for form letters or mailing lists. 40 or 80 column display with most popular 80 column cards supported. A complete set of print formatting commands tailored for each printer (over 40 of them, or write your own); you rarely need to remember "control codes" or face the back end of a printer manual. ZARDAX uses standard text files. A printer spooling or pseudo–disk capability is provided (requires 128K RAM card or auxiliary memory). "Chaining" for long documents. Headers, footers, sub–scripting and super–scripting.

This program is copy–protected. Two diskettes are supplied. New features and updates are released periodically on a copyable "utilities" disk. ZARDAX for the II+, IIc or IIe uses DOS 3.3. Extra keyboard connector REQUIRED for II+ (unless you have an Enhancer). *See Hardware Section for Zardax Keyboard Connector.*

ZARDAX for the III uses SOS, and adds extra features: up to 197K files, reads, writes and converts ASCII or Pascal text files.
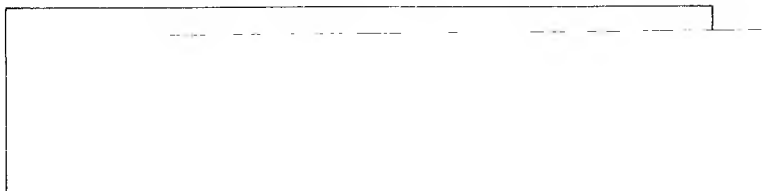
* Please specify II,II+,IIe,IIc or III by choosing the appropriate Product Code.

II,II+,IIe,IIc   SZARII
III   SZARDA

A.P.P.L.E. ORDERS
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0 - 4 oz.	$1.28	$ 1.68	$ 2.08
4 - 8 oz.	1.80	2.60	3.40
8 - 12 oz.	2.32	3.53	4.72
12-16 oz.	2.84	4.44	6.04
16-20 oz.	3.36	5.36	7.36
20-24 oz.	3.88	6.28	8.68
24-32 oz.	4.92	8.12	11.32
2 - 3 lb.	7.00	11.80	16.60
3 - 4 lb.	9.08	15.48	21.88

Each additional ½ lb. over 4 pounds add:

	1.04	1.84	2.64

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4-8 oz.	1.39
8-12 oz.	2.07
12-16 oz.	2.58
2 lb.	3.10
3 lb.	4.10
4 lb.	5.10

For weights over 4 lbs:
$5.10 + $1.00 additional per pound.

UPS 2ND DAY AIR

WEIGHT NOT TO EXCEED	48 STATES A	HAWAII D
1 lb.	$3.00	$4.53
2 "	4.00	5.71
3 "	5.00	6.89
4 "	6.00	6.07
5 "	6.50	9.25
6 "	7.50	10.43
7 "	6.50	11.61
8 "	9.50	12.79
9 "	10.50	13.97
10 "	11.50	15.15
11 "	12.50	16.33
12 "	13.50	17.51
13 "	14.50	18.69
14 "	15.50	19.67
15 "	16.50	21.05
16 "	17.50	22.23
17 "	16.50	23.41
18 "	19.50	24.59
19 "	20.00	25.77
20 "	21.00	26.95
21 "	22.00	26.13
22 "	23.00	29.31
23 "	24.00	30.49
24 "	25.00	31.67
25 "	26.00	32.85

Order